Family Cynoglossidae

Body elongate, more or less lanceolate in profile, color on left side. Eyes on left side, small, very close together, not separated by bony ridge. Mouth small, twisted toward blind side. Teeth little developed, in villiform bands. Gill openings narrow. Gill membranes adnate to shoulder girdle above, joined together and free from Isthmus below. Vertebrae 47 to 52. Scales ctenoid. Lateral sometimes absent, sometimes duplicated. Vertical fins more or less confluent. Pectoral absent with age. Ventrals small, often absent from blind side.

A large family, differing from the Soleidae chiefly in having the eyes and color on the left side, all the vertical fins confluent, no pectoral developed and only the left ventral present. The species are numerous and tropical or subtropical shallow sandy seas.

Analysis of Genera

a¹ Lateral line present on one or both sides.

b¹ Lips fringed.

c¹ Two lateral lines on left side one on right side. Paraplagusia.

c² Three lateral lines on left side, none on right side. Rhinoplagusia.

b² Lips not fringed.

d¹ A single posterior lateral line on left side, none on blind side Dollfusichthys.

d² Two lateral lines on left side, one or none on right side. Cynoglossus.

d³ Three lateral lines on left side. Trulla.

a² Lateral line absent. Symphurus

Genus Paraplagusia Bleeker

Paraplagusia Bleeker, Nederl. Tijds. Dierk., vol. 2, p. 274, 1865.

(Type, Paraplagusia bilineata Bleeker, designated by Jordan, Genera of Fishes, pt. 3, p. 336, 1919.)

Body lanceolate. Snout hooked, overhangs mouth cleft. Eyes on left side. Mouth unsymmetrical, strongly curved. Lips of colored side with row of fringed tentacles. One tubular nostril on colored side, with valve at free border; 2 nostrils on blind side, close behind each other, anterior pierced through fleshy tentacle and posterior oval with short tube. Gill membranes united, more or less free from isthmus. Scales ctenoid on both sides. Lateral lines 2 or 3 on colored side, connected by means of sensory canal on head, one median, one other along dorsal base and third, when present, along anal base. One lateral line on blind side without pores. Vertical fins all confluent. No pectorals. Only left ventral developed.

Indian and Western Pacific Oceans.

Paraplagusia acuminata (Castelnau)

Plagusia acuminata Castelnau, (Res. Fishes Austral.) Vict. Off. Rec. Philadelphia Exhib., p. 44, 1875 (type locality : Western Australia).

—Macleay, Proc. Linn. Soc. New South Wales, vol. 6, p. 138, 182.

Paraplagusia acuminata Norman, Biol. Res. Endeavour, vol. 5, pt. 5, p. 298, June 15, 1926 (reference). —McCulloch, Austral. Mus. Mem., No. 5, pt. 2, p. 287, Sep. 10, 1929 (reference).

The following a doubtful name:

Paraplagusia brevirostris (Saville-Kent)

Plagusia brevirostris Saville-Kent, Great Barrier Reef, p. 370, 1893

(type locality : Queensland; no figure or description).

Paraplagusia brevirostris McCulloch, Austral Mus. Mem., No. 5, pt. 2,

p. 287, Sep. 10, 1929 (reference).

Paraplagusia bilineata (Bloch)

Pleuronectes bilineatus Bloch, Naturg. Ausland. Fische, vol. 3, p. 29, pl. 188, 1787 (type locality : Chinese waters). —Bonnaterre, Tabl. Ichth., p. 79, pl. 91, fig. 377, 1788 (East Indies). —Gmelin, Syst. Nat. Linn., pt. 1, p. 1235, 1789 (China). —Bloch, Naturges. Ausländ. Fische, vol. 3, p. 119, 1795 (Tranquebar). —Walbaum, Artedi Pisc., vol. 3, p. 119, 1792 (on Bloch). —Forster, Fauna Indica, p. 14, 1795. —Schneider, Syst. Ichth. Bloch, p. 158, 1801 (East Indies). —Shaw, General Zool., vol. 4, p. 317, 1804 ( ). —Bennett, Life of Reffles, p. 692, 1830 (Sumatra).

Plagusia bilineata Cuvier, Regne Animal, ed. , vol. 2, p. 224, 18 ( ). —Swainson, Nat. Hist. Animals, vol. 2, p. 303, 1839 (reference). —Cantor, Journ. Asiatic Soc. Bengal, vol. 18, pt. 2, p. 1209, 1849 (1850) (part). —Jerdon, Madras Journ. Lit. Sci. vol. , p. 148, 1851. —Kaup, Archiv Naturges., vol. 24, pt. 1, p. 109, 1858 (reference). —Günther, Cat. Fishes Brit. Mus., vol. 4, p. 492, 1862 (part). —Day, Fishes of Malabar, p. 174, 1865. —Klunzinger, Verh. zool. bot. Ges. Wien, vol. 21, p. 573, 1871 (Red Sea). —

Day, Fishes of India, pt. 3, p. 431, 1877; Fauna British India, Fishes, vol. 2, p. 452, 1889. —Alcock, Journ. Asiatic Soc. Bengal, vol. 58, pt. 1, No. 3, p. 290, 1889 (near Sacramento shoal off Godávari Delta).

Paraplagusia bilineatus Bleeker, Atlas Ichth. Ind. Néerl., vol. 6, p. 27, pl. (13) 244, fig. 5, 1866-72 (Java, Madura, Sumatra, Pinang, Singapore, Borneo); Rech. Faune Madag., 1877, p. 77 (reference). —Jordan and Evermann, Proc. U. S. Nat. Mus., vol. 25, p. 366, 1902 (Formosa; Keerun). —Weber and Beaufort, Fishes Indo Austral Arch., vol. 5, p. 183, fig. 50, fig. 51 (head), 1929 (Pulu Weh, Mias, Borneo, Madura, Celebes).

Plagusia marmorata Bleeker, Naturk. Tijds. Ned. Indië, vol. 1, p. 411, 1850 (type locality : Batavia); Verhand. Batavia. Genoots., No. 9, vol. 24, p. 20, 1852 (Amboina). —Kaup, Archiv Naturges., vol. 24, pt. 1, p. 109, 1858 (reference). —Günther, Cat. Fishes Brit. Mus., vol. 4, p. 491, 1862 (Amboina). —Kner, Reise Novara, Fische, p. 293, 1865 (Java). — Day, Fishes of India, pt. 3, p. 431, pl. 95, fig. 1, 1877 (Madras; China). Meyer, Anal. Soc. Espan. Hist. Nat. Madrid, vol. 14, p. 40, 1885 (Menado, Celebes). —Day, Fauna British India, Fishes, vol. 2, p. 451, fig. 162, 1889.

Paraplagusia marmorata Bleeker, Nederl. Tijds. Dierk., vol. 2, p. 274, 1865 (Amboina); Atlas Ichth. Ind. Néerl., vol. 6, p. 28, pl. (15) 246, fig. 5, 1866-72 (Java, Bali, Sumatra, Batu, Singapore, Borneo, Celebes, Batjan, Amboina); Rech. Faune Madagascar, 1877, p. 77 (reference); Verh. Kon. Akad. Wet. Amsterdam (Japan), vol. 18, p. 22, 1879 (reference). —Jordan and Snyder, Annot. Zool. Jap., vol. 3, p. 123, 1901 (reference). —Fowler, Proc. Acad. Nat. Sci. Philadelphia, ser. 2, vol. 57, p. 517, 1905 (Baram, Borneo). —Bean and Weed, Proc. U. S. Nat. Mus., vol. 42, p. 610, 1912 (Batavia). —Chu, Biol. Bull. St. John's Univ., Shanghai, No. 1, p. 94, Jan. 1931 (reference).

Plagusia dipterigia Rüppell, Atlas Reise nördl. Afrika, Fische, p. 123, pl. 31, fig. 3, 1828 (type locality : Bays of northern Red Sea).

Paraplagusia dipterygia Reeves, Journ. Pan Pac. Res. Inst., vol. 2, No. 3, p. 14, July-Sep. 1927 (name).

Depth 3 1/6 to 3 2/5; head 3 3/4 to 3 4/5, width 4 1/2 to 4 3/5. Snout end to lower orbit 2 to 2 1/8 in head; lower orbit 9 to 9 1/2, 4 1/2 to 4 4/5 in snout; upper orbit entirely to 4/5 in advance of lower orbit; maxillary reaches very slightly beyond hind edge of lower orbit; mouth cleft 4 1/4 to 4 2/5 in head, pointed end of upper jaw extended backward beyond hind maxillary end; each left lip with fringe of short tentacles, right ones entire, nasal tube short; scaly interorbital equals lower orbit. No gill rakers; gill filaments 1 1/4 times lower orbit. Scale

Scales 70 or 71 in lateral line from above gill opening to caudal base and 6 or 7 more on latter (11 to 13 more forward on head to dorsal intersection); 15 above to upper lateral line, 28 or 29 below. Scales with 24 to 26 basal radiating striae; 21 to 30 slender rather long apical denticles, with 3 to 5 transverse series of basal elements; circuli fine, complete. Two lateral lines on left side, none on right.

D. 96 to 98, fin height 4 to 4 1/2 in head; A. 75 to 78, fin height 2 3/4 to 4; caudal 2 3/5 to 2 7/8, pointed behind; ventral 4 1/2 to 4 4/5.

Mars brown to fawn color on left side, finely mottled or marbled with darlsy, whole pattern made up of waved anastomosing lines, between which are very irregular variable larger pale spots. Many examples appear as if greatly spotted with pale or light tints and dark intervening lines indistinct or obscure. Sometimes whole coloration nearly uniform. Orbits neutral gray. Right side whitish, markings of colored side obscured and terminal on vertical fins.

Paraplagusia blochii (Bleeker)

Plagusia blochii Bleeker, Naturk. Tijds. Ned. Indië, vol. 1, p. 411, 1851 (type locality : Batavia; Cheribon; Tegal; Tijilatjap; Samarang; Rembang; Surabaja; Pasuruan); Verh. Batavia. Genoot., No. 9, vol. 24, p. 21, 185 (same localities as above). —Martens, Preuss. Exped. Ost Asien, vol. 1, p. 398, 1876.

Paraplagusia blochi Weber and Beaufort, Fishes Indo Austral. Archip., vol. 5, p. 184, 1929 (Simalur; Java; Madura).

Plagusia bilineata (not Bloch) Cantor, Journ. Asiatic Soc. Bengal, vol. 18, pt. 2, p. 1209, 1849 (1850) (Sea of Malayan Peninsula and Islands). — Günther, Cat. Fishes Brit. Mus., vol. 4, p. 492, 1862 (Cantor's specimen). —Day, Fishes of India, pt. 3, p. 431, 1877; Fauna British India, Fishes, vol. 2, p. 452, 1889.

Paraplagusia bilineata Bleeker, Atlas Ichth. Ind. Néerl., vol. 6, p. 27, 1866-72 (part).

Symphurus vittatus Weber, Nova Guinea, vol. 5, pt. 2, p. 250, 1908.

Paraplagusia dollfusi Chabanaud

Paraplagusia dollfusi Chabanaud, Bull. Soc. Zool. France, vol. 56, p. 303, 1931 (type locality : Gulf of Suez).

Paraplagusia guttata (Macleay)

Plagusia guttata Macleay, Proc. Linn. Soc. New South Wales, vol. 2, pt. 4, p. 362, pl. 10, fig. 3, June 1878 (type locality : Port Darwin, Northern Territory); vol. 6, pt. 1, p. 137, 1881 (Port Darwin; Endeavour River).

Rhinoplagusia guttata McCulloch, Austral. Mus. Mem., No. 5, pt. 2, p. 288, Sep. 10, 1929 (reference).

Paraplagusia guttata Norman, Biol Res. Endeavour, vol. 5, pt. 5, p. 299, June 15, 1926 (20 miles north-east of Bustard Bay; Southern Queensland; 20 fathoms). —Weber and Beaufort, Fishes Indo Austral. Archip., vol. 5, p. 185, 1929 (New Guinea material).

Rhinoplagusia australis Rendahl, Nyt. Mag. Nat. Kristiania, vol. 60, p. 190, 1922 (type locality : Roebuck Bay, Northwest Australia). —McCulloch, Austral. Mus. Mem., No. 5, pt. 2, p. 288, Sep. 10, 1928 (reference).

Plagusia japonica (not Schlegel) Klunzinger, Sitzs. Ber. Akad. Wiss Wien, Math.-nat. Kl., vol. 80, pt. 1, p. 409, 1879 (1880) (Port Darwin).

Rhinoplagusia japonica McCulloch and Whitley, Rec. Austral. Mus., vol. 14, No. 4, p. 350, fig. 3, 1925.

Plagusia notata De Vis, Proc. Linn. Soc. New South Wales, vol. 8, p. 288, 1883 (type locality : Moreton Bay).

Paraplagusia macrocephalus Bleeker

Paraplagusia macrocephalus Bleeker, Atlas Ichth. Ind. Néerl., vol. 6, p. 28, pl. (15) 246, fig. 3, 1866-72 (type locality : Padang, Sumatra).

—Weber and Beaufort, Fishes Indo Austral. Archip., vol. 5, p. 184, (compiled).

Paraplagusia dipterygia (not Rüppell) Jordan and Starks, Proc. U. S. Nat. Mus., vol. 31, p. 236, 1906 (compiled).

Paraplagusia unicolor (Macleay)

Plagusia unicolor Macleay, Proc. Linn. Soc. New South Wales, vol. 6, pt. 1, p. 138, July 1881 (type locality : Port Jackson, New South Wales). —Ogilby, Cat. Fishes New South Wales, p. 33, 1887.

Paraplagusia unicolor McCulloch, Austral. Zool., vol. 2, p. 47, pl. 13, 1921. —Lord, Papers Proc. Roy. Soc. Tasmania, p. 66, 1922. —XXXXX

McCulloch and Whitley, Rec. Austral. Mus., vol. 14, p. 353, fig. 4, 1925. —Norman, Biol. Res. Endeavour, vol. 5, pt. 5, p. 298, June 15, 1926 (off Hervey Bay; Frazer Island; mouth of Wide Bay; southern Queensland; southern New South Wales; 15 to 18 fathoms). —McCulloch, Austral. Mus. Mem., No. 5, pt. 2, p. 287, Sep. 10, 1929 (reference).

Genus Rhinoplagusia Bleeker

Rhinoplagusia Bleeker, Atlas Ichth. Ind. Néerl., vol. 6, p. 27, 1866-72.

(Type, Plagusia japonica Schlegel, monotypic.)

Usinostia Jordan and Snyder, Proc. U. S. Nat. Mus., vol. 23, p. 380, 1900.

(Type, Plagusia japonica Schlegel, monotypic.) (Misprint.)

Usinosta Jordan and Snyder, Journ. College Sci. Tokyo, vol. , p. 123, 1901. (Type, Plagusia japonica Schlegel, monotypic.) (Misprint.)

Usinosita Jordan and Evermann, Proc. U. S. Nat. Mus., vol. 25, p. 366, 1902. (Type, Plagusia japonica Schlegel, monotypic.)

Otaki, Journ. Fish. Bur. Tokyo, p. 8, 1896. —

Ishikawa and Matsuura, Prelim. Cat. Fish. Mus. Tokyo, p. 24, 1896 (reference).

Usinostia japonica Jordan and Snyder, Proc. U. S. Nat. Mus., vol. 23, p. 380, 1900 (Tokyo).

Usinosta japonica Jordan and Snyder, Annot. Zool. Japon., vol. 3, p. 123, 1901 (reference).

Usinosita japonica Jordan and Evermann, Proc. U. S. Nat. Mus., vol. 25, p. 366, 1902 (Keerun). —Jordan and Starks, Bull. U. S. Fish Comm., vol. 22, p. 628, 1904 (Suruga Bay); Proc. U. S. Nat. Mus., vol. 31, p. 237, 1906 (Wakanoura, Kobe, Tokyo). —Schmidt, Compt. Rend. Acad. Sci. U. R. S. S., p. 319, 1931 (Fusan, Korea).

Aserraggodes japonicus Jordan and Snyder, Annot. Zool. Japon., vol. 3, p. 122, 1901 (reference).

Rhinoplagusia japonica (Houttuyn)

Pleuronectes japonicus Houttuyn, Verh. Holl. Maatsch. Haarlem, vol. 20, p. 317, 1782 (type locality : Japan). —Gmelin, Syst. Nat. Linn., pt. 1, p. 1240, 1789 (Japan). —Walbaum, Artedi Pisc., vol. 3, p. 121, 1792 (copied). —Forster, Fauna Indica, p. 14, 1795. —Lacépède, Hist. Nat. Poiss., vol. 4, pp. 599, 654, 1802 (Japan). —Schneider, Syst. Ichth. Bloch, p. 162, 1801 (Japan).

Plagusia japonica Schlegel, Fauna Japonica, Poiss., pts. 10-14, p. 187, pl. 95, fig. 2, 1846 (Nagasaki Bay). —Kaup, Archiv Naturges., vol. 24, pt. 1, p. 109, 1858 (reference). —Günther, Cat. Fishes Brit. Mus., vol. 4, p. 492, 1862 (copied). —Bleeker, Verh. Kon. Akad. Wet. Amsterdam (Japan), vol. 18, p. 22, 1879 (Kiusiu; Sikok). —Namiye, Class. Cat., 1881, p. 111 (Tokyo). —

Rhinoplagusia japonica Snyder, Proc. U. S. Nat. Mus., vol. 42, p. 441, 1912 (Tokyo, Misaki, Otaru, Kagoshima). —Jordan, Tanaka, Snyder, Journ. College Sci. Tokyo, vol. 33, p. 335, 1913 (reference). — Izuka and Matsuura, Cat. Zool. Spec. Mus. Tokyo, Vertebr., p. 115, 1920 (Tokyo market). —Reeves, Journ. Pan Pac. Res. Inst., vol. 2, No. 3, p. 14, July-Sep. 1927 (Amoy, Foochow, Mia Wha). —Schmidt and Lindberg, Bull. Acad. Sci. U. R. S. S., p. 1149, 1930 (Tsuruga). —Chu, Fiol. Bull. St. John's Univ., Shanghai, No. 1, p. 94, Jan. 1931 (reference). —Schmidt, Trans. Pac. Comm. Acad. Sci. U. S. S. R., vol. 2, p. 128, 1931 (Nagasaki).

Genus Dollfusichthys Chabanaud

Dollfusichthys Chabanaud, Bull. Soc. Zool. France, vol. 56, p. 304, 1931.

(Type Dollfusichthys sinus-arabici Chabanaud, monotypic.)

Lips not fringed. Teeth only in jaws of blind side. Two nostrils on eyed side, anterior tubular before lower eye, posterior simple pore in front part of interorbital. Two nostrils on blind side of head. Single lateral line posterior on eyed side, none on blind side. Only ventral of eyed side present.

Dollfusichthys simus-arabici Chabanaud

Dollfusichthys simus-arabici Chabanaud, Bull. Soc. Zool. France, vol. 56, 1931, p. 304 (type locality : Gulf of Suez).

Genus Cynoglossus Buchanan-Hamilton

Cynoglossus Buchanan-Hamilton, Fishes of Ganges, pp. 32, 365, 1822. (Type, Cynoglossus lingua Buchanan-Hamilton, monotypic.)

Arelia Kaup, Archiv Naturges., vol. 24, pt. 1, p. 107. (Type, Arelia schneideri Kaup = Pleuronectes arel Schneider, virtually tautotypic.)

Icania Kaup, Archiv Naturges., vol. 24, pt. 1, p. 109. (Type, Pleuronectes cynoglossus Cantor, monotypic.)

Body lanceolate. Snout hooked, overhangs mouth cleft. Eyes on left side. Lips not fringed. Front nostril on colored side tubular; hind nostril when present usually simple opening in interorbital space; on blind side front nostril usually tubular, hind one opening or slit but less conspicuous than on colored side. Gill membranes united, more or less free from interorbital. Scales ctenoid on colored side, ctenoid or cycloid on blind side. Lateral lines 2 or 3 on colored side; one median, one extending some distance along below dorsal base always present and third along above anal base present or absent. Blind side with 2 lateral lines, one or none at all, generally not piercing scales. Dorsal, anal and caudal confluent. No pectorals. Only left ventral developed, connected with anal.

Cynoglossus macrorhynchos (Bleeker)

Plagusia macrorhynchos Bleeker, Naturk. Tijds. Nederl. Indië, vol. 1, p. 413, 1850 (type locality : Tjilankahan, Bantam, Java; on figure by Kuhl and Van Hasselt); Verh. Batavia. Genoot. (Pleuronect.), vol. 24, p. 22, 1852 (copied). —Kaup, Archiv Naturges., vol. 24, pt. 1, p. 110, 1858 (reference).

Arelia macrorhynchos Bleeker, Act. Soc. Sci. Ind. Néerl. (Enum. Pisc.) vol. 6, p. 185, 1859 (reference).

Cynoglossus macrorhynchus Bleeker, Atlas Ichth. Ind. Néerl., vol. 6, p. 35, pl. (14) 265, fig. 2, 1866-72 (on Kuhl and Van Hasselt). —Weber and Beaufort, Fishes Indo Austral. Archip., vol. 5, p. 208, 1929 (note).

Cynoglossus dabryi Bleeker, from the Yangtse River, merely a name mentioned in Chu's list of 1931, I have been unable to locate.

Cynoglossus arel (Schneider)

Pleuronectes erel Schneider, Syst. Ichth. Bloch, p. 159, 1801 (type locality : Tranquebar).

Cynoglossus arel Day, Fishes of India, pt. 3, p. 434, pl. 98, fig. 2, 1877 (type); Fauna British India, Fishes, vol. 2, p. 456, 1889. —Jordan and Seale, Proc. U. S. Nat. Mus., vol. 29, p. 529, 1905 (Hong Kong). — Norman, Rec. Indian Mus., vol. 30, pt. 2, p. 201, fig. 17, July 1928 (Orissa; Hughli River mouth). —Chu, Biol. Bull. St. John's Univ., Shanghai, No. 1, p. 95, Jan. 1931 (reference).

Arelia arel Reeves, Journ. Pan Pac. Res. Inst., vol. 2, No. 3, p. 14, July-Sep. 1927 (Hong Kong).

Arelia schneideri Kaup, Archiv Naturges., vol. 24, pt. 1, p. 107, 1858 (on Schneider).

Cynoglossus bilineatus (Lacépède)

Achirus bilineatus Lacépède, Hist. Nat. Poiss., vol. 4, pp. 659, 663, 1802 (type locality : China).

Plagusia bilineata Rüppell, Atlas Reise nördl. Afrika, Fische, p. 123, 1828 (Massaua).

Cynoglossus bilineatus Weber, Siboga Exped., vol. 57, p. 443, 1913 (Macassar). —Ogilby, Proc. Roy. Soc. Queensland, vol. 23, p. 39, 1910 (1911) (diagnosis in key). —Norman, Biol. Res. Endeavour, vol. 5, pt. 5, p. 301, 1926 (Bowen; Gloucester Head; 16 to 35 fathoms); Rec. Indian Mus., vol. 30, pt. 2, p. 198, fig. 13, July 1928 (Sind, Madras, Ganjam, Orissa, Burma, Karachi, Sind, Seychelles). —McCulloch, Austral. Mus. Mem., No. 5, pt. 2, p. 289, Sep. 10, 1929 (reference). —Weber and Beaufort, Fishes Indo Austral. Archip., vol. 5, p. 194, 1929 (Malacca Strait, Sumatra, Java, Madura, Celebes, Flores).

Plagusia quadrilineata Kuhl and Van Hasselt, in Bleeker, Naturk. Tijds. Ned. Indië, vol. 1, p. 412, 1851 (type locality : Batavia; Sumatra; Banka); Verh. Batavia, Genoot., No. 9, vol. 24, p. 21, 1852 (Java, Sumatra, Banka).

Arelia quadrilineata Kaup, Archiv Naturges., vol. 24, pt. 1, p. 107, 1858 (Java; Sumatra).

Cynoglossus quadrilineatus Günther, Cat. Fishes Brit. Mus., vol. 4, p. 497, 1862 (Amboyna). —Kner, Reise Novara, Fisches, p. 295, 1865 (Java). —Bleeker, Atlas Ichth. Ind. Néerl., vol. 6, p. 32, pl. (14) 245, fig. 3, 1866-72 (Java, Sumatra, Singapore, Banka, Bintang, Borneo, Celebes, Amboina). —Klunzinger, Verh. zool.-bot. Ges. Wien, vol. 21, p. 573, 1871 (Red Sea). —Day, Fishes of India, pt. 3, p. 435, 1877. —Klunzinger, Sitzs. Ber. Akad. Wiss. Wien, Math.-nat. Kl., vol. 80, p. 409, 1879 (1880) (Cleveland Bay). —Macleay, Proc. Linn. Soc. New South Wales, vol. 9, p. 53, 1884 (Cleveland Bay record). —Meyer, An. Soc. Espan. Hist. Nat. Madrid, vol. 14, p. 40, 1885 (Manila Bay). —Day, Fauna British India Fishes, vol. 2, p. 457, 1889. —Alcock, Journ. Asiatic Soc. Bengal, vol. 58, pt. 1, No. 3, p. 288, 1889 (15 to 30 miles south west of Puri). —Steindachner, Denks. Akad. Wiss. Wien, Math.-nat. Kl., vol. 71, p. 154, 1902 (Gischin). —Smith and Pope, Proc. U. S. Nat. Mus., vol. 31, p. 498, 1906 (Kochi; Urado). —Jenkins, Mem. Indian Mus., vol. 3, p. 30, 1910 ( ). —Bean and Weed, Proc. U. S. Nat. Mus., vol. 42, p. 610, 1912 (Batavia).

Cynoglossus sindensis Day, Fishes of India, pt. 3, p. 434, pl. 90, fig. 6, 1877 (type locality : Sind, India); Fauna British India, Fishes, vol. 2, p. 455, 1889. —Jordan and Richardson, Bull. Bur. Fisher., vol. 27, p. 281, 1907 (1908) (Manila). —Ogilby, Proc. Roy. Soc. Queensland, vol. 23, p. 37 (39), 1910 (Croker Island). —Norman, Biol. Res. Endeavour, vol. 5, pt. 5, p. 302, June 15, 1926 (reference).

—McCulloch, Austral. Mus. Bull., No. 5, pt. 2, p. 288, Sep. 10, 1929 (reference).

Depth 4 to 4 1/5; head 3 7/8 to 4, width 4 2/5 to 4 1/2. Snout end to lower orbit 2 2/5 to 2 2/3 in head; lower orbit 9 to 9 1/2, 3 3/4 to 4 in snout; upper orbit 1/2 to 3/4 in advance of lower orbit; maxillary extends beyond eye space about 1/3 diameter of lower orbit; mouth cleft 4 to 4 1/4 in head, front of upper jaw with triangular point extended back well beyond symphysis of mandible; lips entire; hind nostril in front of interorbital; scaly interorbital 1 1/5 to 1 1/3 in lower orbit. Gill rakers as few feeble rudimentary minute papillae; gill filaments 1 1/3 times lower orbit.

Scales 80 to 83 in lateral line from above gill opening to caudal base and 5 or 6 more on latter (9 or 10 more forward on head to dorsal intersection); 16 above to upper lateral line, 20 or 21 below. Scales with 19 to 22 basal radiating striae; 7 to 9 small slender apical denticles, with 3 or 4 transverse series of basal elements; circuli fine, complete.

D. 105 to 107, fin height 3 1/3 to 3 2/5 in head; A. 85 to 88, fin height 2 7/8 to 3 1/3; caudal 2 3/5 to 3, ends in point behind; ventral 31/2 to 4.

Left side mars brown to wood brown, vertical fins inclining to grayish brown and edged very narrowly pale to whitish. Orbits grayish. Right side whitish, vertical fins grayish to brownish marginally, with only edge sometimes very narrowly whitish.

Cynoglossus borneensis (Bleeker)

Plagusia borneensis Bleeker, Act. Soc. Sci. Ind. Néerl. (Borneo), vol. 5, p. 6, 1858-59 (type locality : Sinkawang, Borneo).

Arelia borneensis Bleeker, Act. Soc. Sci. Ind. Néerl. (Borneo), vol. 8, p. 9, 1860.

Cynoglossus borneensis Günther, Cat. Fishes Brit. Mus., vol. 4, p. 498, 1862 (compiled). —Bleeker, Atlas Ichth. Ind. Néerl., vol. 6, p. 34, pl. (14) 245, fig. 5, 1866-72 (type). —Fowler, Proc. Acad. Nat. Sci. Philadelphia, vol. 57, 1905, p. 518 (Baram, Borneo). —Seale, Philippine Journ. Sci., vol. , p. 288, 1910 (Sandakan, North Borneo). —Weber and Beaufort, Fishes Indo Austral. Archip., vol. 5, p. 205, 1929 (compiled).

Depth 4; head 4 1/5, width 5 1/4. Snout to lower orbit 2 3/5 in head to snout end; lower orbit 8 3/4, 3 in snout; upper orbit 2/5 in advance of lower; mouth cleft curved, hook of upper jaw encroaching well back over mandible, cleft reaches to hind eye edge or maxillary end, 1/4 of diameter of lower orbit posteriorly, length 4 in head; interorbital 1 1/2 in lower orbit, concave. Gill rakers absent; gill filaments 1 1/2 times lower orbit.

Scales 84 in lateral line from above gill opening to caudal base (11 more forward on head to dorsal intersection); 14 above medial lateral

line to upper lateral line, 21 below to anal base. Scales greatly smaller about edges of body. Caudal base scaly and dorsal and anal fins with finely scaled well marked basal scaly sheaths. Scales with 28 to 30 basal radiating striae; 8 to 30 slender apical denticles, with 2 or 3 transverse series of basal elements; circuli fine. Scales of left side ctenoid, of right side cycloid. Two lateral lines on left side, one distinct on right side.

D. 104, fin height 3 1/4 in head; A. 82, fin height 3 1/5; caudal 3; ventral 4 3/4.

Left side brown, uniform. Dark neutral gray tinge on opercular region. Orbits neutral gray. Fins brownish marginally. Right side whitish, fins rather dark brown marginally.

East Indies.

12292. Manila market. December 12 to 18, 1907, Length 179 mm.

Symphurus sorcogonensis (Evermann and Seale)

Synaptura sorcogonensis Evermann and Seale, Bull. Bur. Fisher., vol. 26, p. 106, fig. 22, 1906 (1907) (type locality : Bacon, Sorsogon, Philippines).

Brachirus sorcogonensis Jordan and Richardson, Bull. Bur. Fisher., vol. 27, p. 281, 1907 (1908) (Manila; Lubang).

Cynoglossus brachycephalus Bleeker

Cynoglossus brachycephalus Bleeker, Atlas Ichth. Ind. Néerl., vol. 6, p. 38, pl. (13) 244, fig. 6, 1866-72 (type locality : Western Sumatra). —Regan, Trans. Linn. Soc. London, vol. 12, pt. 3, p. 235, May 1908 (Mulaku, Maldives; Caragdos Carajos). —Weber, Siboga Exped., vol. 57, p. 441, 1913 (Madura Strait). —Norman, Rec. Indian Mus., vol. 30, pt. 2, p. 211, fig. 27, July 1928 (Persian Gulf; Mekran; Ganjam; Madras; 3 miles north north west of Brown Rocks; Amirantes; Cargodos Carajos; Seychelles; Maldives; Ceylon; 13 to 49 fathoms). —Weber and Beaufort, Fishes of Indo Austral. Archip., vol. 5, p. 207, 1929 (Java Sea; Java; Bali; Weber's material).

Cynoglossus praecisus Alcock, Ann. Mag. Nat. Hist., ser. 6, vol. 6, p. 442, 1890 (type locality : Ganjam coast, 33 fathoms).

Cynoglossus brevirostris Johnstone, Ceylon Pearl Oyster Fisher., Suppl. Rep. 15, p. 209, 1904

Cynoglossus kopsii (not Bleeker) Regan, Trans. Linn. Soc. London, Zool., vol. 12, p. 235, 1908.

Cynoglossus sibogae Weber, Siboga Exped., vol. 57, p. 442, fig. 83, 1913 (type locality : Molo Strait; Salibabu; 36 to 91 meters). —Weber and Beaufort, Fishes Indo Austral. Archip., vol. 5, p. 200, fig. 50, 1929 (types).

Areliscus natalensis Von Bonde, Rep. Fish. Mar. Biol. Surv. South Africa, 2, Spec. Rep. 1, p. 23, pl. 4, fig. 2, 1922 (type locality : off Natal, 29 fathoms).

Areliscus ecaudatus (not Gilchrist) Barnard, Ann. South African Mus., vol. 21, pt. 1, p. 415, June 1925 (part).

Depth 3 1/2 to 3 3/5; head 4 2/5 to 4 4/5, width 3 3/4 to 4 1/4. Snout end to lower orbit 3 to 3 1/8 in head; lower orbit 5 to 5 1/3, 1 4/5 to 2 in snout; upper orbit 1/4 to 2/5 in advance of lower orbit; mouth cleft reaches 3/5 below lower orbit, length 3 1/3 to 3 3/5 in head; interorbital not distinct, eyes nearly touching. No gill rakers; gill filaments long as lower orbit.

Scales 52 to 54 in lateral line from above gill opening to caudal base (7 or 8 more forward on head to dorsal intersection); 9 above to upper lateral line 10 or 11 below to anal base. All scales ctenoid. Caudal base scaly, fins otherwise naked. Scales with 36 to 38 close-set radiating basal striae; 25 to 28 short apical denticles, with 2 or 3 transverse series of basal elements; circuli fine. Two lateral lines on left side, none only axial one on right side apparently not perforating scales.

D. 94 to 98, fin height 2 3/4 to 3; A. 81 to 84, fin height 2 1/2 to 2 3/4; caudal 2 1/2 to 2 3/4; ventral 2 2/5 to 2 4/5.

Left side rather warm brown, clouded with slightly darker. Orbits dark gray. Fins pale, gray, each ray with dark or dusky markings. Right side whitish, markings on vertical fin rays grayish.

Persian Gulf, Natal, Maldives, Seychelles, India, Ceylon, East Indies, Philippines.

3249, 3250. D.5360. Corregidor Light, N.74°W., 6.9 miles (lat. 14°21'N., 120°41'E.), Manila Bay. In 12 fathoms. February 7, 1909. Length 90 to 97 mm.

1 example. Cotabato, below mouth of river, Mindanao. May 20, 1908. Length 80 mm.

2 examples. D.5442. San Fernando Point Light, N.39°E., 8.4 miles (lat. 16°30'36"N., long. 120°11'06"E.), Cuyos Island. In 45 fathoms. May 10, 1909. Length 79 to 102 mm.

Cynoglossus brevirostris Day

Cynoglossus brevirostris Day, Fishes of India, pt. 3, p. 437, pl. 97, fig. 8, 1877 (type locality : Madras); Fauna British India, Fishes, vol. 2, p. 459, 1889. —Norman, Rec. Indian Mus., vol. 30, pt. 2, p. 212, fig. 29, July 1928 (type).

Cynoglossus brevis Günther

Cynoglossus brevis Günther, Cat. Fishes Brit. Mus., vol. 4, p. 500, 1862 (type locality : Canges). —Day, Fishes of India, vol. 3, p. 437, pl. 97, fig. 2, 1877 (Calcutta); Fauna British India, Fishes, vol. 2, p. 459, 1889. —Alcock, Journ. Asiatic Soc. Bengal, vol. 58, pt. 1, No. 3, p. 289, 1889 (off Chilka Lake bar). —Hora, Mem. Indian Mus., vol. 5, pt. 5, p. 760, 1923 (Chilka Lake). —Norman, Rec. Indian Mus., vol. 30, pt. 2, p. 206, fig. 22, July 1928 (Ganjam, Orissa, Chilka Lake, Calcutta, Ganges).

Cynoglossus buchanani (not) Day, Proc. Zool. Soc. London, 1869, p. 522 (part).

Cynoglossus durbanensis Regan, Ann. Durban Mus., vol. 3, pt. 1, p. 2, 1921 (type locality :). —Barnard, Ann. South African Mus., vol. 21, pt. 1, p. 412, June 1925 (Natal; Delagoa Bay).

Cynoglossus broadhursti Waite

Cynoglossus broadhursti Waite, Rec. Austral. Mus., vol. 6, pt. 2, p. 73, pl. 8, fig. 2, Sep. 15, 1905 (type locality : off Carnarvon northward of Houtman's Abrolhos, Western Australia). —Norman, Biol. Res. Endeavour, vol. 5, pt. 5, p. 302, June 1926 (off Murray River, 20 fathoms). — McCulloch, Austral. Mus. Mem., No. 5, pt. 2, p. 288, Sep. 10, 1929 (reference).

Cynoglossus cantoris (Bleeker)

Plagusia cantoris Bleeker, Verh. Batavia. Genoot. (Bengal. Hind.), vol. 25, p. 76 (153), 1853 (type locality : Hindostan, [may be Malaya?]).

Cynoglossus cantoris Günther, Cat. Fishes Brit. Mus., vol. 4, p. 502, 1862 (Singapore). —Bleeker, Atlas Ichth. Ind. Néerl., vol. 6, p. 33, 1866-72 (compiled). —Weber and Beaufort, Fishes Indo Austral. Archip., vol. 5, p. 196, 1929 (compiled).

Cantoria pinangensis Kaup, Archiv Naturgesch., vol. 24, pt. 1, p. 106, 1858 (on Cantor).

Plagusia potous (not Cuvier) Cantor, Journ. Asiatic Soc. Bengal, vol. 18, pt. 2, p. 1217, 1849 (1850) (type locality : Sea of Malayan Peninsula and Islands).

Cynoglossus cynoglossus (Buchanan-Hamilton)

Achirus cynoglossus Buchanan-Hamilton, Fishes of Ganges, pp. 132, 373, 1822 (type locality : Ganges tidal mouths). —Hora, Mem. Indian Mus., vol. 9, No. 4, pl. 19, figs. 2-3, 1929 (Buchanan-Hamilton's figures).

Plagusia cynoglossa Cantor, Journ. Asiatic Soc. Bengal, vol. 18, pt. 2, p. 1211, 1849 (1850) (Pinang Sea). —Bleeker, Verh. Batavia. Genoot. (Bengal. Hind.), vol. 26, p. 91, 1853 (reference).

Icania cynoglossa Kaup, Archiv Naturges., vol. 24, pt. 1, p. 109, 1858 (reference).

Cynoglossus cynoglossus Norman, Rec. Indian Mus., vol. 30, pt. 2, p. 208, fig. 24, July 1928 (Calcutta, Passar River, Shela, Sunderbans, Rangamati, Moisrakha, Ganges).

Plagusia bengalensis Bleeker, Verh. Batavia. Genoot. (Bengal. Hind.), vol. 25, p. 152, pl. 6, fig. 3, 1853 (type locality : Calcutta).

Cynoglossus bengalensis Günther, Cat. Fishes Brit. Mus., vol. 4, p. 499, 1862 (Ganges River). —Day, Fishes of India, pt. 3, p. 435, pl. 97, fig. 4, 1877; Fauna British India, Fishes, vol. 2, p. 457, 1889. — Johnstone, Ceylon Pearl Oyster Fisher., Suppl. Rep. 15, p. 209, 1904.

Cynoglossus buchanani Day, Proc. Zool. Soc. London, 1869, p. 522 (type locality : India).

Cynoglossus deltae Jenkins

Cynoglossus deltae Jenkins, Rec. Indian Mus., vol. 5, p. 130, 1910 (type locality : Morrelganj, Khulna, Sundarbans). —Norman, Rec. Indian Mus., vol. 30, pt. 2, p. 212, fig. 28, July 1928 (types).

Cynoglossus diplasios Jordan and Evermann

Cynoglossus diplasios Jordan and Evermann, Proc. U. S. Nat. Mus., vol. 25, p. 367, fig. 29, 1902 (type locality : Formosa). —Ogilby, Proc. Roy. Soc. Queensland, vol. 23, p. 39, 1910 (1911) (diagnosis in key).

Cynoglossus dispar Day

Cynoglossus dispar Day, Fishes of India, pt. 3, p. 434, pl. 96, fig. 2, 1877 (type locality : Bombay; Madras); Fauna British India, Fishes, vol. 2, p. 456, 1889. —Ogilby, Proc. Roy. Soc. Queensland, vol. 23, p. 39, 1910 (1911) (diagnosis in key). —Norman, Rec. Indian Mus., vol. 30, pt. 2, p. 199, fig. 14, July 1928 (types; Madras).

Cynoglossus dubius Day

Cynoglossus dubius Day, Journ. Linn. Soc. London, Zool., vol. 11, p. 525, 1873 (type locality : Gwadur); Fishes of India, pt. 3, p. 435, pl. 95, fig. 2, 1877 (Sind; Beloochistan; Gwadur); Fauna British India, Fishes, vol. 2, p. 456, 1889. —Ogilby, Proc. Roy. Soc. Queensland, vol. 23, p. 39, 1910 (1911) (diagnosis in key). —Norman, Rec. Indian Mus., vol. 30, pt. 2, p. 200, fig. 15, July 1928 (Karachi, Bombay, Travancore).

Cynoglossus acaudatus Gilchrist

Cynoglossus acaudatus Gilchrist, Marine Investig. South Africa, vol. 4, p. 162, pl. 46, 1906 (type locality : Amatikulu River mouth, north west by west 3/4 w., 12 miles; "Cape Point, E. by N. 3/4 N., 34 miles [off Tugela River]; Durban; 26 to 600 fathoms). Gilchrist and Thompson, Ann. Durban Mus., vol. 1, pt. 4, p. 398, 1917 (reference).

Cynoglossus ecaudatus Regan, Ann. Durban,Mus., vol. 2, pt. 5, p. 222, 1920 (Natal; corrected orthography).

Areliscus ecaudatus Barnard, Ann. South African Mus., vol. 21, pt. 1, p. 415, June 1925 (Natal; Zululand; 26 to 30 fathoms).

Cynoglossus elongatus Günther

Cynoglossus elongatus Günther, Cat. Fishes Brit. Mus., vol. 4, p. 501, 1862 (type locality : Pinang; Cantor's specimen). —Tirant, Serv. Océan. Pêch. Indo Chine, 6e Note, p. 172, 1929 (Phu Yen). —Chevey, Inst. Océan. Indo Chine, 19e Note, p. 27, Aug. 25, 1932 (Annam).

Plagusia lingua (not Buchanan-Hamilton) Cantor, Journ. Asiatic Soc. Bengal, vol. 18, pt. 2, p. 1215, 1849 (1850) (Sea of Pinang).

Cynoglossus favosquamis (Richardson)

Plagusia favosquamis Richardson, Ichth. China Japan, p. 281, 1846 (type locality : coasts of China; Canton). —Kaup, Archiv Naturges., vol. 24, pt. 1, p. 110, 1858 (reference).

Cynoglossus favosquamis Bleeker, Nederl. Tijds. Dierk., vol. 4, p. 131, 1873 (1874) (reference). —Chu, Biol. Bull. St. John's Univ. Shanghai, No. 1, p. 94, Jan. 1931 (reference).

Cynoglossus gilchristi Ogilby

Cynoglossus gilchristi Ogilby, Proc. Roy. Soc. Queensland, vol. 23, p. 39, 1911 (on Gilchrist). —Regan, Ann. Durban Mus., vol. 2, pt. 5, p. 222, 1920 (Natal). —Barnard, Ann. South African Mus., vol. 21, pt. 1, p. 412, June 1925 (Natal; Delagoa Bay; 4 to 30 fathoms).

Cynoglossus brachycephalus (not Bleeker) Gilchrist, Marine Investig. South Africa, vol. 3, p. 12, pl. 30, 1903 (type locality : 2 1/2 miles off Umhlanga River mouth, Natal, 22 to 26 fathoms). —Gilchrist and Thompson, Ann. Durban Mus., vol. 1, pt. 4, p. 399, 1917 (reference). —Von Bonde, Fisher. Mar. Biol. Surv., Rep. No. 2, pt. 1, p. 25, 1922 (note).

Cynoglossus grammicus (Richardson)

Plagius grammica Richardson, Ichth. China Japan, p. 280, 1846 (type locality : coasts of China; Canton). —Kaup, Archiv Naturges., vol. 24, pt. 1, p. 110, 1858 (name).

Cynoglossus grammicus Bleeker, Nederl. Tijds. Dierk., vol. 4, p. 131, 1873 (1874) (reference). —Chu, Biol. Bull. St. John's Univ., Shanghai, No. 1, p. 95, Jan. 1931 (reference).

Cynoglossus grandisquamis (Cantor)

Plagusia grandisquamis Cantor, Journ. Asiatic Soc. Bengal, vol. 18, pt. 2, p. 1214, 1849 (1850) (type locality : Sea of Pinang).

Trulla grandisquamis Kaup, Archiv Naturges., vol. 24, pt. 1, p. 109, 1858 (no locality).

Cynoglossus grandisquamis Günther, Cat. Fishes Brit. Mus., vol. 4, p. 503, 1862 (type). —Duncker, Mitteil. Naturh. Mus. Hamburg, vol. 21, p. 169, 1904 (Singapore). —Weber and Beaufort, Fishes Indo Austral. Archip., vol. 5, p. 208, 1929 (compiled).

Cynoglossus hamiltonii Günther

Cynoglossus hamiltonii Günther, Cat. Fishes Brit. Mus., vol. 4, p. 504, 1862 (type locality : Pinang). —Day, Fishes of India, pt. 3, p. 436 (not figure), 1877; Fauna of British India, Fishes, vol. 2, p. 458, 1889 (part). —Duncker, Mitteil. Naturh. Mus. Hamburg, vol. 21, p. 169, 1904 (Singapore). —Norman, Rec. Indian Mus., vol. 30, pt. 2, p. 205, July 1928 (name).

Cynoglossus kapuasensis Fowler

Cynoglossus kapuasensis Fowler, Proc. Acad. Nat. Sci. Philadelphia, 1905, p. 519, fig. 16 (type locality : Kapuas River, Borneo).

Cynoglossus Kapwasensis Seale, Philippine Journ. Sci., vol. 5, No. 4, p. 288, 1910 (Sandakan).

Cynoglossus feldmanni (not Bleeker) Weber and Beaufort, Fishes Indo Austral. Archip., vol. 5, p. 192, 1929 (part).

Cynoglossus kaupi (Bleeker)

Arelia kaupi Bleeker, Act. Soc. Sci. Ind. Néerl. (Sumatra), vol. 8, p. 73, 1860 (type locality : Benkulen, Sumatra).

Cynoglossus kaupii Günther, Cat. Fishes Brit. Mus., vol. 4, p. 497, 1862 (compiled). —Ogilby, Proc. Roy. Soc. Queensland, vol. 23, p. 39, 1910 (1911) (diagnosis in key).

Cynoglossus kaupi Bleeker, Atlas Ichth. Ind. Néerl., vol. 6, p. 32, pl. (13) 244, fig. 4, 1866-72 (type). —Weber and Beaufort, Fishes Indo Austral. Archip., vol. 5, p. 196, 1929 (copied).

Cynoglossus lida (Bleeker)

Plagusia lida Bleeker, Naturk. Tijds. Nederl. Indië, vol. 1, p. 413, 1851 (type locality : Batavia); Verh. Batavia. Genoot., No. 9, vol. 24, p. 23, 1852 (types). —Kaup, Archiv Naturges., vol. 24, pt. 1, p. 110, 1858 (name).

Arelia lida Bleeker, Act. Soc. Sci. Ind. Néerl. (Enum. Pisc.), vol. 6, p. 184, 1859 (reference).

Cynoglossus lida Günther, Cat. Fishes Brit. Mus., vol. 4, p. 498, 1862 (no locality). —Bleeker, Atlas Ichth. Ind. Néerl., vol. 6, p. 36, pl. (12) 243, fig. 2, 1866-72 (Java; Celebes). —Day, Fishes of India, pt. 3, p. 436, pl. 97, fig. 3, 1877. —Meyer, Anal. Soc. Espan. Hist. Nat. Madrid, vol. 14, p. 40, 1885 (North Celebes). —Day, Fauna British India, Fishes, vol. 3, p. 458, 1889. —Alcock, Journ. Asiatic Soc. Bengal, vol. 58, pt. 1, No. 3, p. 288, 1889 (south-west of Puri). —Vinciguerra, Ann. Mus. Civ. Stor. Nat. Génova, vol. 29, p. 188, 1890 (Rangoon). —Regan, Ann. Durban Mus., vol. 2, p. 221, fig. 5, 1920 (Durban, Natal). —Barnard, Ann. South African Mus., vol. 21, pt. 1, p. 411, June 1925 (Natal coast). —Norman, Records Indian Mus., vol. 30, pt. 2, p. 210,

fig. 26, July 1928 (Madras, Ganjam, Orissa, Puri). —Weber and Beaufort, Fishes Indo Austral. Archip., vol. 5, p. 203, 1929 (Salibabu).

Cynoglossus intermedius Alcock, Journ. Asiatic Soc. Bengal, vol. 58, pt. 1, No. 3, p. 288, 1889 (type locality : 32 miles south west of Puri, Bengal Bay).

?Cynoglossus os Fowler, Journ. Acad. Nat. Sci. Philadelphia, ser. 2, vol. 12, pt. 4, p. 556, pl. , fig. , 1904 (type locality : Padang, Sumatra).

Cynoglossus lighti Norman

Cynoglossus lighti Norman, Ann. Mag. Nat. Hist., ser. , vol. 16, p. 270, 1925 (type locality : Wenchow; Amoy). —Chu, Biol. Bull. St. John's Univ. Shanghai, No. 1, p. 95, Jan. 1931 (reference).

Cynoglossus lineolatus Steindachner

Cynoglossus lineolatus Steindachner, Sitzs. Ber. Akad. Wiss. Wien, Math.-nat. Kl., vol. 55, p. 588, 1867 (type locality : Hong Kong). —Rutter, Proc. Acad. Nat. Sci. Philadelphia, 1897, p. 88 (Swatow). —Reeves, Journ. Pan Pac. Res. Inst., vol. 2, No. 3, p. 14, July-Sep. 1927 (reference). —Chu, Biol. Bull. St. John's Univ. Shanghai, No. 1, p. 95, Jan. 1931 (reference).

Cynoglossus lingua Buchanan-Hamilton

Cynoglossus lingua Buchanan-Hamilton, Fishes of Ganges, pp. 32, 365, 1822 (type locality : Calcutta and salt estuaries). —Günther, Cat. Fishes Brit. Mus., vol. 4, p. 501, 1862 (Ganges). —Day, Fishes of India, pt. 3, p. 433, pl. 96, fig. 1, 1877 (Calcutta); Fauna British India, Fishes, vol. 2, p. 454, fig. 163, 1889. —Vinciguerra, Ann. Mus. Civ. Stor. Nat. Genova, vol. 29, p. 190, 1890 (Rangoon). —Hora, Mem. Asiatic Soc. Bengal, vol. 6, pt. 9, p. 476, 1924 (Talé Sap, Peninsular Siam). —Norman, Rec. Indian Mus., vol. 30, pt. 2, p. 200, fig. 16, July 1928 (Madras, Calcutta, Kan Kondiggee, Sallermukai River, Kushtia, Rangabali, Morrelganj, Hughli River mouth, Nabaspur, Morrison Bay, Orissa, north east Bengal, Ganges, Burma). —Weber and Beaufort, Fishes Indo Austral. Archip., vol. 5, p. 203, 1929 (Sumatra, Java).

Plagusia lingva Cantor, Journ. Asiatic Soc. Bengal, vol. 18, pt. 2, p. 1215, 1849 (1850) (part).

Plagusia lingua Jerdon, Madras Journ. Lit. Sci., vol. 17, No. 39, p. 148, 1851 (1853).

Arelia lingua Kaup, Archiv Naturges., vol. 24, pt. 1, p. 107, 1858 (reference).

Pleuronectes potous Cuvier, Regne Animal, ed. 2, vol. 2, p. 344, 1829 (on Jeree potoo D. Russell, Fishes of Coromandel, vol. 1, p. 57, pl. 73, 1803; type locality : Vizagapatam).

Plagusia potous Bleeker, Verh. Batavia. Genoot., No. 9, vol. 24, p. 23, 1852 (Batavia). —Jerdon, Madras Journ. Lit. Sci., vol. 17, No. 39, p. 148, 1851 (1853).

Arelia potous Kaup, Archiv Naturges., vol. 24, pt. 1, p. 108, 1858 (reference). —Bleeker, Act. Soc. Sci. Ind. Néerl. (Enum. Pisc.), vol. 6, p. 185, 1859 (reference).

Cynoglossus potous Bleeker, Atlas Ichth. Ind. Néerl., vol. 6, p. 33, pl. (10) 241, fig. 4, 1866-72 (Java, Sumatra, Pinang, Singapore, Banka, Borneo). —Bean and Weed, Proc. U. S. Nat. Mus., vol. 42, p. 610, 1912 (Batavia).

Acheiris jibha Buchanan-Hamilton, in Cantor, Journ. Asiatic Soc. Bengal, vol. 18, pt. 2, p. 1215, 1849 (1850) (name in foot note).

Cynoglossus macrorhynchus (not Bleeker) Kner, Reise Novara, Fische, p. 295, 1865 (Java).

Cynoglossus elongatus (not Günther) Day, Fishes of India, vol. 3, p. 433, pl. 90, fig. 5, 1877 (Madras); Fauna British India, Fishes, vol. 2, p. 454, 1889.

Cynoglossus acinaces Jenkins, Rec. Indian Mus., vol. 5, pt. 2, p. 130, 1910 (type locality : Sunderbuns).

Depth 5 1/8 to 5 4/5; head 4 1/8 to 4 1/4, width 5 1/4. Snout end to lower orbit 2 1/5 to 2 1/2 in head; lower orbit 7 3/4 to 9, 3 1/3 to 5 2/5 in snout, upper orbit 1/2 in advance; reaches slightly behind lower orbit; mouth corner nearer gill opening 1 1/4 orbital diameters than to snout end; mouth cleft 4 1/3 to 4 1/2 in head, hook extended well back over symphysis of mandible; interorbital narrow, 1/2 lower orbit. Gill as minute rudimentary papillae; gill filaments 1 1/4 times lower orbit.

Scales 72 to 73 in median lateral line from above gill opening to caudal base (8 more forward on head to intersection above preopercle); 12 above to upper lateral line, 14 below to anal fin base. Lateral lines 2 on left side, apparently none on right side. Scales with 19 or 20 close set slightly radiating basal striae; 15 or 16 slender apical denticles, largest medially and 3 or 4 transverse series of smaller ones basally; circuli fine. Right scales cycloid.

D. 132 to 135, fin height 3 3/4 to 4 1/4 in head; A. 104 to 106, fin height 3 1/2 to 4 4/5; caudal 1 3/4 to 3 2/3; ventral 4 to 4 2/5.

Left side largely uniform dull cinnamon, along each edge next to dorsal and anal edges narrowly whitish. Orbits grayish. Lower posterior portion of head dark or neutral gray, on both sides. Vertical fins pale brownish basally, each ray with dark streak and fin terminally all pale. Right side whitish.

India, Burma, Siam, East Indies.

1 example. Sandakan Bay, Borneo. March 2, 1908. Length 140 mm.

5274. Sandakan Bay, Borneo. March 21, 1908. Length 266 mm.

Cynoglossus maccullochi Norman

Cynoglossus maccullochi Norman, Biol. Res. Endeavour, vol. 5, pt. 5, p. 302, fig. 13, June 15, 1926 (type locality : North west of Hummocky Islands, Queensland, 14 to 16 fathoms). —McCulloch, Austral. Mus. Mem., vol. 5, pt. 2, p. 288, Sep. 10, 1928 (reference).

Cynoglossus macrolepidotus (Bleeker)

Plagusia macrolepidota Bleeker, Naturk. Tijds. Nederl. Indië, vol. 1, p. 415, 1850 (type locality : Batavia); Verh. Batavia. Genoot., No. 9, vol. 24, p. 25, 1852 (types). —Kaup, Archiv Naturges., vol. 24, pt. 1, p. 110, 1858 (reference).

Arelia macrolepidota Bleeker, Act. Soc. Sci. Ind. Néerl. (Enum. Pisc.), vol. 6, p. 184, 1859 (reference).

Cynoglossus macrolepidotus Günther, Cat. Fishes Brit. Mus., vol. 4, p. 496, 1862 (no locality). —Kner, Reise Novara, Fische, p. 294, 1865 (Java, Ceylon, Manila, Hong Kong). —Bleeker, Atlas Ichth. Ind. Néerl., vol. 6, p. 34, pl. (11) 242, fig. 2, 1866-72 (Java, Sumatra, Banka); Nederl. Tijds. Dierk., vol. 4, p. 131, 1873 (1874) (Hong Kong record). —Martens, Preuss. Exped. Ost Asien, vol. , pp. 210, 339, 1876 (Yokohama, Japan). —Day, Fishes of India, pt. 3, p. 434, pl. 96, fig. 3, 1877; Fauna British India, Fishes, vol. 2, p. 455, 1889. —Alcock, Journ. Asiatic Soc. Bengal, vol. 58, pt. 1, No. 3, p. 288, 1889 (Bengal Bay). —Rutter, Proc. Acad. Nat. Sci. Philadelphia, 1897, p. 89 (Swatow). —Jenkins, Mem. Indian Mus., vol. 3, p. 30, 1910 ( ). —Seale, Philippine

Journ. Sci., vol. 5, No. 4, p. 288, 1910 (Sandakan, Borneo). —Bean and Weed, Proc. U. S. Nat. Mus., vol. 42, p. 610, 1912 (Batavia). —Reeves, Journ. Pan Pac. Res. Inst., vol. 2, No. 3, p. 14, July-Sep. 1927 (reference). —Norman, Records Indian Mus., vol. 30, pt. 2, p. 202, fig. 18, July 1928 (Persian Gulf, north end Persian Gulf, ?Travancore, Madras, Orissa, Puri, Pratabnagore, Hughli River mouth, Eastern Channel, Bengal Bay, Andamans, Gulf of Martaban, Morrison Bay, Akyab, 10 to 110 fathoms). —Weber and Beaufort, Fishes of Indo Austral. Archip., vol. 5, p. 205, 1929 (Simalur, Java Sea, Java). —Tirant, Serv. Océan. Péch. Indo Chine, 6^{e} Note, p. 172, 1929 (Cochin China). —Chu, Biol. Bull. St. John's Univ. Shanghai, No. 1, p. 95, Jan. 1931 (reference). —Schmidt, Compt Rend. Acad. Sci. U. R. S. S., p. 319, 1931 (Fusan, Korea). —Chevey, Inst. Océan. Péch. Indo Chine, 19^{e} Note, Aug. 25, 1932, p. 27, (Cochin China).

Plagusia oligolepis Bleeker, Naturk. Tijds. Ned. Indië, vol. 7, p. 445, 1854 (type locality : Batavia, Java).

Arelia oligolepis Bleeker, Act. Soc. Sci. Ind. Néerl. (Enum. Pisc.), vol. 6, p. 185, 1859 (reference).

Cynoglossus oligolepis Günther, Cat. Fishes Brit. Mus., vol. 4, p. 496, 1862 (no locality). —Bleeker, Atlas Ichth. Ind. Néerl., vol. 6, p. 34, pl. (11) 242, fig. 3, (type). —Steindachner, Sitzs. Ber. Akad. Wiss. Wien, Math.-nat. Kl., vol. 55, pt. , p. 587, 1867 (Ningpo). —Day, Fishes of India, pt. 3, p. 433, pl. 95, fig. 4, 1877; Fauna British India, Fishes, vol. 2, p. 455, 1889. —Alcock, Journ. Asiatic Soc. Bengal, vol. 58, pt. 1, No. 3, p. 288, 1889 (Bengal Bay). — Weber and Beaufort, Fishes Indo Austral. Archip., vol. 5, p. 206, 1929 (Sumatra, Madura, Java Sea, South China Sea). —Chu, Biol. Bull. St. John's Univ., Shanghai, No. 1, p. 95, Jan. 1931 (reference).

Cynoglossus microstomus Norman

Cynoglossus microstomus Norman, Rec. Indian Mus., vol. 30, pt. 2, p. 204, fig. 20, July 1928 (type locality : Calcutta; Mormugao, Portuguese India).

Cynoglossus hamiltonii (not Günther) Day, Fishes of India, pt. 3, p. 436, pl. 95, fig. 3, 1877 (Calcutta); Fauna of British India, Fishes, vol. 2, p. 458, 1889 (part).

Cynoglossus macrophthalmus Norman

Cynoglossus macrophthalmus Norman, Biol. Res. Endeavour, vol. 5, pt. 5, p. 306, fig. 15, June 15, 1926 (type locality : off Bustard Head Light, Queensland, 20 fathoms). McCulloch, Austral. Mus. Mem., vol. 5, pt. 2, p. 288, Sep. 10, 1920 (reference).

Cynoglossus macrostomus Norman

Cynoglossus macrostomus Norman, Rec. Indian Mus., vol. 30, pt. 2, p. 204, fig. 20, July 1928 (type locality : Calcutta; Orissa; Mormugao Bay, Portuguese India).

Cynoglossus hamiltoni (not Günther) Day, Fishes of India, pt. 3, p. 436, pl. 95, fig. 3, 1877.

Cynoglossus maculipinnis Rendahl

Cynoglossus maculipinnis Rendahl, Kon. Svensk. Vet. Akad. Handl. Stockholm, vol. 61, No. 9, p. 17, 1921 (type locality : Cape Jaubert, North West Australia). —Norman, Biol. Res. Endeavour, vol. 5, pt. 5, p. 362, June 15, 1926 (reference). —McCulloch, Austral. Mus. Mem., No. 5, pt. 2, p. 289, Sep. 10, 1929 (reference).

Cynoglossus melampetalus (Richardson)

Plagiusa melampetala Richardson, Ichth. China Japan, p. 281, 1846 (type locality : Coasts of China; Canton). —Kaup, Archiv. Naturges., vol. 24, pt. 1, p. 110, 1858 (name).

Cynoglossus melampetalus Günther, Cat. Fishes Brit. Mus., vol. 4, p. 496, 1862 (China). —Bleeker, Nederl. Tijds. Dierk., vol. 4, p. 131, 1873 (1874) (reference). —Rutter, Proc. Acad. Nat. Sci. Philadelphia, 1897, p. , (Swatow). —Reeves, Journ. Pan Pac. Res. Inst., vol. 2, No. 3, p. 14, July-Sep. 1927 (Swatow; Ningpo).

Cynoglossus monopus (Bleeker)

Plagusia monopus Bleeker, Verh. Batavia. Genoot., No. 5, vol. 22, p. 11, 1848 (1849) (type locality : Batavia; Boleling).

Cynoglossus monopus Bleeker, Atlas Ichth. Ind. Néerl., vol. 6, p. 38, pl. (14) 245, fig. 4, 1866-72 (Java, Bali, Sumatra, Borneo); Nederl. Tijds. Dierk., vol. 4, p. 131, 1873 (1874) (reference). —Alcock, Journ. Asiatic Soc. Bengal, vol. 65, pt. 2, p. 330, 1896 ( ). —Norman, Records Indian Mus., vol. 30, pt. 2, p. 204, fig. 19, July 1928 (Puri; Ganjam). —Weber and Beaufort, Fishes Indo Austral. Archip., vol. 5, p. 197, 1929 (Sumatra; Java). —Chu, Biol. Bull. St. John's Univ., Shanghai, No. 1, p. 94, Jan. 1931 (reference).

Plagusia javanica Kuhl and Van Hasselt, in Bleeker, Verh. Batavia. Genoot., No. 5, vol. 22, p. 11, 1848 (1849) (name in synonymy).

Plagusia melanopterus Bleeker, Naturk. Tijds. Nederl. Indië, vol. 1, p. 415, 1850 (type locality : Batavia; Boleling, Bali); Verh. Batavia. Genoots., No. 9, vol. 24, p. 25, 1852 (types).

Arelia melanopterus Bleeker, Act. Soc. Sci. Ind. Néerl. (Enum. Pisc.), vol. 5, p. 104, 1859 (reference).

Cynoglossus melanopterus Günther, Cat. Fishes Brit. Mus., vol. 4, p. 502, 1862 (no locality). —Alcock, Journ. Asiatic Soc. Bengal, vol. 58, pt. 1, No. 3, p. 289, 1889 (30 to 35 miles south west of Puri). —Seale, Philippine Journ. Sci., vol. 11, p. 78, 1914 (Hong Kong). —Chu, Biol. Bull. St. John's Univ. Shanghai, No. 1, p. 94, Jan. 1931 (reference).

Arelia ceratophrys Kaup, Archiv Naturges., vol. 24, pt. 1, p. 108, 1858 (type locality : no locality; specimen in Paris Museum).

Pleuronectes ceratophrys Kuhl and Van Hasselt, in Kaup, Archiv.Naturges., vol. 24, pt. 1, p. 108, 1858 (name in synonymy).

Cynoglossus ogilbyi Norman

Cynoglossus ogilbyi Norman, Biol. Res. Endeavour, vol. 5, pt. 5, p. 304, fig. 14, June 15, 1926 (type locality : Southern Queensland). —

McCulloch, Austral. Mus. Mem., No. 5, pt. 2, p. 288, Sep. 10, 1929 (reference).

Cynoglossus oxyrhynchos (Bleeker)

Plagusia oxyrhynchos Bleeker, Naturk. Tijds. Dierk., vol. 1, p. 416, 1850 (type locality : Batavia); Verh. Batavia. Genoot., No. 9, vol. 24, p. 26, 1859 (types). —Kaup, Archiv Naturges., vol. 24, pt. 1, p. 110, 1858 (reference).

Arelia oxyrhynchos Bleeker, Act. Soc. Sci. Ind. Néerl. (Enum. Pisc.), vol. 6, p. 185, 1859 (reference).

Cynoglossus oxyrhynchus Günther, Cat. Fishes Brit. Mus., vol. 4, p. 499, 1862 (no locality); —Bleeker, Atlas Ichth. Ind. Néerl., vol. 6, p. 36, pl. (14) 245, fig. 1, 1866-72 (Java, Borneo, Amboina). —Weber and Beaufort, Fishes Indo Austral. Archip., vol. 5, p. 201, 1929 (Lombok).

Cynoglossus polytaenia (Bleeker)

Plagusia polytaenia Bleeker, Naturk. Tijds. Ned. Indië, vol. 5, p. 529, 1853 (type locality : Priaman, Sumatra). —Kaup, Archiv Naturges., vol. 24, pt. 1, p. 110, 1858 (name).

Arelia polytaenia Bleeker, Act. Soc. Sci. Ind. Néerl. (Enum. Pisc.), vol. 6, p. 185, 1859 (reference).

Cynoglossus polytaenia Bleeker, Atlas Ichth. Ind. Néerl., vol. 6, p. 36, pl. (13) 264, fig. 2, (Sumatra; Singapore; Amboina). —Weber and Beaufort, Fishes Indo Austral. Archip., vol. 5, p. 201, 1929 (Java; Pinang).

Cynoglossus puncticeps (Richardson)

Plagiusa puncticeps Richardson, Fishes China Jap., p. 280, 1846 (type locality : China). —Kaup, Archiv Naturges., vol. 24, pt. 1, p. 110, 1858 (name).

Cynoglossus puncticeps Günther, Cat. Fishes Brit. Mus., vol. 4, p. 500, 1862 (China). —Kner, Reise Novara, Fische, p. 297, 1865 (Java). — Bleeker, Atlas Ichth. Ind. Néerl., vol. 6, p. 37, pl. (15) 246, fig. 7, 1866-72 (Java, Banka, Singapore, Borneo, Amboina); Nederl. Tijds. Dierk., vol. 4, p. 131, 1873 (1874) (reference). —Day, Fishes of India, pt. 3, p. 437, pl. 97, fig. 1877 (Madras; China). —Günther, Rep. Voy. Challenger, vol. 1, pt. 6, p. , 1880 (Philippines). — Meyer, Anal. Soc. Españ. Hist. Nat. Madrid, vol.14, p. 40, 1885 (Manila Bay). —Day, Fauna British India, Fishes, vol. 2, p. 459, 1889. — Alcock, Journ. Asiatic Soc. Bengal, vol. 58, pt. 1, No. 3, p. 289, 1889 (off Puri). —Jordan and Seale, Bull. Bur. Fisher., vol. 26, p. 46, 1906 (1907) (Manila). —Jenkins, Mem. Indian Mus., vol. 3, p. 30, 1910 ( ). —Reeves, Journ. Pan. Pac. Res. Inst., vol. 2, No. 3, p. 14, July-Sep. 1927 (name). —Norman, Records

Indian Mus., vol. 30, pt. 2, p. 205, fig. 21, July 1928 (Bombay, Mormugao Bay, Trivandrum, Travancore, Madras, Ennur, Calicut, Ernakulam, Ganjam, Orissa, Burma, Karachi, Sind, Andamans). —Weber and Beaufort, Fishes Indo Austral. Archip., vol. 5, p. 198, 1929 (Java Sea, Java, Madura Strait, Celebes, Flores, Sumbawa, Aru). —Chu, Biol. Bull. St. John's Univ., Shanghai, No. 1, p. 94, Jan. 1931 (reference).

?Plagusia auro-limbata Richardson, Ichth. China Jap., p. 280, 1846 (type locality : coasts of China; Canton). —Kaup, Archiv Naturges., vol. 24, pt. 1, p. 110, 1858 (reference).

Cynoglossus aurolimbatus Bleeker, Nederl. Tijds. Dierk., vol. 4, p. 130, 1873 (1874) (reference).

Plagiusa nigro-labeculata Richardson, Ichth. China Jap., p. 280, 1846 (type locality : coasts of China; Canton).

Plagiusa nigrolabeculata Kaup, Archiv Naturges., vol. 24, pt. 1, p. 110, 1858 (name).

Cynoglossus nigrolebeculatus Bleeker, Naturk. Tijds. Dierk., vol. 4, p. 131, 1873 (1874) (reference).

Plagusia javanica Kuhl and Van Hasselt, in Bleeker, Naturk. Tijds. Ned. Indië, vol. 1, p. 414, 1850 (type locality : Batavia, Java); Verhand. Batavia. Genoot., No. 9, vol. 24, p. 24, 1852 (types).

Arelia javanica Kaup, Archiv Naturges., vol. 24, pt. 1, p. 108, 1858 (reference).

Plagusia brachyrhynchos Bleeker, Naturk. Tijds. Ned. Indië, vol. 1, p. 414, 1850 (type locality : Batavia); Verh. Batavia. Genoot., No. 9, vol. 24, p. 24, 1852 (types). —Kaup, Archiv Naturges., vol. 24, pt. 1, p. 110, 1858 (reference).

Arelia brachyrhynchos Bleeker, Act. Soc. Sci. Ind. Néerl. (Enum, Pisc.), vol. 6, p. 184, 1859 (reference).

Cynoglossus brachyrhynchus Günther, Cat. Fishes Brit. Mus., vol. 4, p. 499, 1862 (no locality). —Bleeker, Atlas Ichth. Ind. Néerl., vol. 6, p. 37, pl. (11) 243, fig. 4, 1866-72 (Java, Singapore, Celebes, Batjan). —Day, Fishes of India, pt. 3, p. 435, pl. 96, fig. 4, 1877 (Moulmein); Fauna British India, Fishes, vol. 2, p. 457, 1889. —Johnstone, Ceylon Pearl Oyster Fisher., Suppl. Rep. 15, p. 209, 1904. —Bean and Weed, Proc. U. S. Nat. Mus., vol. 42, p. 610, 1912 (Batavia). —Weber, Siboga

Exped., vol. 57, p. 443, 1913 (Madura Strait; Sumbawa; Macassar).

Cynoglossus bengalensis (not Bleeker) Günther, Cat. Fishes Brit. Mus., vol. 4, p. 499, 1862 (part).

Cynoglossus lida (not Bleeker) Jenkins, Mem. Indian Mus., vol. 3, p. 30, 1910.

Cynoglossus lida var. punctatus Jenkins, Mem. Indian Mus., vol. 3, p. 31, 1910.

Depth 3 1/5 to 3 7/8; head 4 1/5 to 4 4/5, width 4 to 4 1/2. Snout end to lower orbit 2 3/5 to 3 in head; lower orbit 6 1/2 to 8, 1 4/5 to 3 in snout; upper orbit advanced 1/4 to 1/3 from lower orbit; mouth cleft reaches opposite hind edge of lower orbit, comer nearer snout end than gill opening, length 4 to 4 3/5 in head; interorbital width 1/2 lower orbit, concave. Gill rakers vestigial papillae; gill filaments 1 1/4 times lower orbit.

Scales 80 to 90 in lateral line from above gill opening to caudal base (10 or 11 more forward to dorsal intersection on head); 14 to 19 above to upper lateral line, 20 to 23 below to anal base. Scales ctenoid on both sides of body. Caudal base scaly. Dorsal and anal with broad well defined basal scaly sheaths. Scales with 22 to 30 basal radiating striae; 20 to 30 rather long apical denticles, with 2 or 3 transverse series of basal elements; circuli fine. Left side with 2 lateral lines, indistinct or absent from blind side.

D. 90 to 98, fin height 2 1/8 to 2 1/4 in head; A. 70 to 74, fin height 2 1/5 to 2 3/4; caudal 2 1/8 to 2 1/5; ventral 2 2/3 to 2 3/4.

Brown on left side varying to gray or dull russet, variously mottled darker. In young color often lighter and mottling as large contrasted dark spots. Orbits dark gray. Vertical fins pale brown or grayish, with brown spots. Right side whitish, vertical fins all more or less grayish or darker.

Cynoglossus robustus Günther

Cynoglossus robustus Günther, Ann. Mag. Nat. Hist., ser. , vol. , p. 243, 1873 (type locality : Shanghai). —Steindachner, Ann. Hofmus. Wien, vol. 11, p. 219, 1896 (Kobe). —Jordan and Snyder, Annot. Zool. Japon., vol. 3, p. 123, 1901 (reference).

—Jordan and Starks, Proc. U. S. Nat. Mus., vol. 31, p. 239, 1906 (Tokyo, Kobe, Onomichi Bay). —Fowler and Bean, Proc. U. S. Nat. Mus., vol. 62, art. 2, p. 68, 1922 (Takao). —Reeves, Journ. Pan. Pac. Res. Inst., vol. 2, No. 3, p. 14, July-Sep. 1927 (Shanghai). —Chu, Biol. Bull. St. John's Univ. Shanghai, No. 1, p. 95, Jan. 1931 (reference). —Schmidt, Trans. Pac. Comm. Acad. Sci. U. S. S. R., vol. 2, p. 129, 1931 (Nagasaki; Fusan); Compt. Rend. Acad. Sci. U. R. S. S., p. 319, 1931 (reference). —Tanaka, Journ. Fac. Sci. Univ. Tokyo, sect. 4, Zool, vol. 3, pt. 1, p. 39, Nov. 4, 1931 (reference).

Cynoglossus inusita Jordan, Tanaka, Snyder, Journ. College Sci. Tokyo, vol. 33, p. 335, 1913 (on Jordan and Starks 1906).

Cynoglossus semifasciatus Day

Cynoglossus semifasciatus Day, Fishes of India, pt. 3, p. 436, pl. 97, fig. 5, 1877 (type locality : sea at Madras); Fauna British India, Fishes, vol. 2, p. 458, 1889. —Alcock, Journ. Asiatic Soc. Bengal, vol. 58, pt. 1, p. 289, 1889 (north east of Puri, Bengal Bay). —

Jenkins, Mem. Indian Mus., vol. 3, p. 30, 1910 ( ).

—Norman, Rec. Indian Mus., vol. 30, pt. 2, p. 207, fig. 23, July 1928 (Ganjam, Puri, Orissa, Pratabnagore).

Cynoglossus sibogae Weber

Cynoglossus sibogae Weber, Siboga Exped., vol. 57, p. 442, fig. 83, 1913

(type locality : Molo Strait, 69 to 91 meters; Salebabu, 36 meters).

Depth 3 1/2; head 4 1/4, width 4 1/4. Snout end to lower orbit 2 3/4 in head; lower orbit 6, 2 1/5 in snout, upper orbit 1/2 in advance; maxillary reaches 3/4 in lower orbit; mouth corner midway in head length; mouth cleft 5 in head, hook extended well back over symphysis of mandible; interorbital not defined, eyes touching. Gill rakers as row of minute feeble papillae; gill filaments 1 1/5 in lower orbit.

Scales 50 in median lateral line from above gill opening to caudal base (6 more forward on head to intersection above preopercle); 9 above to upper lateral line, 14 below to anal base. Lateral lines 2 on left side, none on right side. Scales with 24 or 25 basal radiating striae, edge notched angularly for each striae; 20 or 21 apical denticles, medial longest and transversely 2 or 3 rows of small ones basally; circuli fine. Right scales also ctenoid.

D. 104, fin height 2 in head; A. 79, fin height 2; caudal 2 1/2, pointed behind; ventral 2 1/8.

Left side buff to cream buff, mottled with clay color tints more or less as numerous longitudinal irregular, incomplete and waved streaks. Orbits gray. Vertical fins whitish, with small blackish brown spots or dots on rays, contrasted and producing specked appearance. Right side whitish, dark spots on vertical fins showing through paler or obscured.

East Indies.

D.5152 [illegible]X(77 mm.)

Cynoglossus sumatranus (Bleeker)

Plagusia sumatrana Bleeker, Nat. Tijds. Ned. Indië, vol. 5, p. 529, 1853 (type locality : Benculen, Sumatra). —Kaup, Archiv Naturges., vol. 24, pt. 1, p. 110, 1858 (name).

Arelia sumatrana Bleeker, Act. Soc. Sci. Ind. Néerl. (Enum. Pisc.), vol. 6, p. 185, 1859 (reference).

Cynoglossus sumatrensis Günther, Cat. Fishes Brit. Mus., vol. 4, p. 497, 1862 (no locality). —Bleeker, Atlas Ichth. Ind. Néerl., vol. 6, p. 35, pl. (12) 243, fig. 1, 1866-72 (Sumatra). —Jordan and Richardson, Bull. Bur. Fisher., vol. 27, p. 281, 1907 (1908) (Ticao).

Cynoglossus sumatranus Norman, Rec. Indian Mus., vol. 30, pt. 2, p. 209, fig. 25, July 1928 (Burma; Mergui). —Weber and Beaufort, Fishes Indo Austral. Archip., vol. 5, p. 202, 1929 (compiled), p. 430 (reference).

Cynoglossus bengalensis (not Bleeker) Day, Fishes of India, pt. 3, p. 436, 1877 (part).

Depth 3 4/5 to 4; head 4 1/4 to 4 1/3, width 5 to 5 1/5. Snout to lower orbit 2 1/5 to 2 1/3 in head; lower orbit 9 to 9 1/3, 3 1/2 to 4 in snout; upper orbit 1/4 to 1/3 in advance of lower; mouth cleft curved, hook of upper jaw encroaching well back over mandible, cleft reaches opposite or slightly behind lower orbital edge, length 4 3/4 to 5 in head; interorbital 1/2 of lower orbit, concave, scaly. Gill rakers absent; gill filaments 1 1/2 times lower orbit.

Scales 70 to 75 in lateral line from above gill opening to caudal base (8 or 9 more forward on head to dorsal intersection); 12 or 13 above to upper lateral line, 13 or 14 below to anal base. Scales moderately small about edges of body and on basal sheaths of dorsal and anal. Caudal base finely scaled. Scales with 28 to 30 basal radiating striae; apical denticles; 38 to 40 slender apical denticles, with 3 to 7 transverse series of basal elements; circuli fine. Scales ctenoid on both sides of body. Left side with 2 lateral lines, none on right side.

D. 103 to 109, fin height 3 1/2 to 4 in head; A. 72 to 80, fin height 3 1/5 to 3 1/4; caudal 2 1/4 to 2 3/4; ventral 3 7/8 to 4.

Left side brown, each scale with more or less obscure pale spot basally though scarcely forming contrasted color pattern. Orbits dark neutral gray. Fins all gray brown, rays little darker or more brownish. Right side whitish, fins grayish.

Burma, Malaya, East Indies, Philippines.

Cynoglossus gracilis Günther

Cynoglossus gracilis Günther, Ann. Mag. Nat. Hist., ser. 4, vol. 12, p. 244, 1873 (type locality : Shanghai); ser. 7, vol. 1, p. , 1898 (Newchwang, North China). —Mori, Hand List Manchur. Vertebr., p. 184, July 1927 (reference).

Areliscus gracilis Reeves, Journ. Pan. Pac. Res. Inst., vol. 2, No. 3, p. 14, July-Sep. 1927 (Chefoo, Newchwang, Shanghai).

Arelia gracilis Chu, Biol. Bull. St. John's Univ., No. 1, p. 96, Jan. 1931 (reference).

Genus Trulla Kaup

Trulla Kaup, Archiv Naturges., vol. 24, pt. 1, p. 109, 1858. (Type, Trulla cantori Kaup = Plagusia trulla Cantor, virtually tautotypic.)

Mouth inferior. Lips not fringed. Nostril single on left side, before front of lower eye. Ctenoid scales on left side, cycloid on right side. Lateral lines 3 on left side, none on right. Only left ventral present, more or less confluent with anal.

Trulla abbreviata (Gray)

Plagusia abbreviata Gray, Illustrat. Ind. Zool. Hardwicke, vol. 2, pl. 94, fig. 3, 1830-32 (type locality : China).

Arelia abbreviata Kaup, Archiv Naturg., vol. 24, pt. 1, p. 108, 1858 (reference).

Cynoglossus abbreviatus Günther, Cat. Fishes Brit. Mus., vol. 4, p. 494, 1862 (types; Amoy); Ann. Mag. Nat., ser. , vol. , p. , 1873 (Shanghai). —Bleeker, Nederl. Tijds. Dierk., vol. 4, p. 131, 1873 (1874) (reference). —Peters, Monatsb. Akad. Wiss. Berlin, 1880, p. (Ningpo). —Seale, Philippine Journ. Sci., vol. 11, p. 78, 1914 (Hong Kong). —Evermann and Shaw, Proc. Cal. Acad. Sci., vol. 16, No. 4, p. 113, Jan. 31, 1927 (Hangchow, Nanking, Ningpo). —Fowler, Proc. Acad. Nat. Sci. Philadelphia, 1929, p. 615 (Hong Kong). —Chu, Biol. Bull. St. John's Univ. Shanghai, No. 1, p. 96, Jan. 1931 (reference).

Areliscus abbreviatus Jordan and Metz, Mem. Carnegie Mus., vol. 6, No. 1, p. 62, June 1913 (Fusan, Korea). —Wu, Contrib. Biol. Lab. Sci. Soc. China, vol. 5, No. 4, p. 71, fig. 57, 1929 (Amoy). —Schmidt, Trans. Pac. Comm. Acad. Sci. U. S. S. R., vol. 2, p. 129, 1931 (Fusan); Compt.

Rend. Acad. Sci. U. R. S. S., p. 319, 1931 (Fusan).

Cynoglossus purpureomaculatus Regan, Ann. Mag. Nat. Hist. ser. , vol. , p. 28, 1905 (type locality : Inland Sea of Japan).

Areliscus purpureomaculatus Jordan and Starks, Proc. U. S. Nat. Mus., vol. 31, p. 242, 1906 (compiled). —Jordan, Tanaka, Snyder, Journ. College Sci. Tokyo, vol. 33, p. 336, 1913 (reference). —Izuka and Matsuura, Cat. Zool. Spec. Mus. Tokyo, Vertebr., p. 114, 1920 (Ariakonoumi).

Areliscus hollandi Jordan and Metz, Mem. Carnegie Mus., vol. 6, No. 2, p. 62, pl. 9, fig. 3, 1913 (type locality : Fusan, Korea).

Trulla capensis Kaup

Trulla capensis Kaup, Archiv Naturges., vol. 24, pt. 1, p. 109, 1858 (type locality : no locality [= Cape of Good Hope]). —Boulenger, Marine Investig. South Africa, vol. 1, p. 4, 1898. —Barnard, Ann. South African Mus., vol. 21, pt. 1, p. 416, June 1925 (South Africa, 10 to 60 fathoms).

Cynoglossus capensis Günther, Cat. Fishes Brit. Mus., vol. 4, p. 503, 1862 (copied).

Trulla carpenteri (Alcock)

Cynoglossus carpenteri Alcock, Journ. Asiatic Soc. Bengal, vol. 58, pt. 1, No. 3, p. 287, pl.18, fig. 1, 1889 (type locality : 68 miles east of the mouth of the Devi River in Máhánaddi delta, 68 fathoms); Ann. Mag. Nat. Hist., ser. 6, vol. 6, p. 217, 1890 ( ). —Goode and Bean, Oceanic Ichth., p. 462, 1895 (compiled). —Alcock, Journ. Asiatic Soc. Bengal, vol. 65, pt. 2, p. 330, 1896 ( ); Illustrat. Zool. Investigator, pt. 4, pl. 22, fig. 5, 1896; Cat. Deep Sea Fishes Ind. Mus., p. 133, 1899 (Bengal Bay; Arabian Sea; 68 to 107 fathoms). —Boulenger, Ann. Mag. Nat. Hist., ser. 7, vol. 7, p. 263, 1901 ( ). —Regan, Journ. Bombay Nat. Hist. Soc., vol. 16, p. 329, 1905 (Sea of Oman, 170 to 243 fathoms). —Norman, Rec. Indian Mus., vol. 30, pt. 2, p. 196, fig. 11, July 1928 (Gulf of Oman; Arabian Sea; Calicut; Bengal Bay; Persian Gulf; 98 to 230 fathoms).

Trulla feldmanni (Bleeker)

Plagusia feldmanni Bleeker, Naturk. Tijds. Nederl. Indië, vol. 5, p. 455, 1853 (type locality : Pengaron, Borneo). —Kaup, Archiv Naturges., vol. 24, pt. 1, p. 110, 1858 (name).

Arelia feldmanni Bleeker, Act. Soc. Sci. Ind. Néerl. (Enum. Pisc.), vol. 6, p. 184, 1859 (reference).

Cynoglossus feldmanni Günther, Cat. Fishes Brit. Mus., vol. 4, p. 495, 1862 (no locality). —Bleeker, Atlas Ichth. Ind. Néerl., vol. 6, p. 31, pl. (12) 243, fig. 5, 1866-72 (Borneo). —Weber and Beaufort, Fishes Indo Austral. Archip., vol. 5, p. 192, 1929 (Sumatra).

Depth 4 1/8 to 4 1/5; head 4 1/3 to 4 3/4, width 4 1/2 to 5. Snout end to lower orbit 2 1/4 to 2 1/4 in head; lower orbit 8 3/4 to 10, 4 1/4 to 4 1/3 in snout, upper orbit 1/3 to 1/2 in advance; maxillary extends 1/3 to 2/5 behind lower orbit; mouth corner 1 to 1 1/2 eye diameters nearer gill opening than snout end; mouth cleft 4 1/2 in head, hook extended well back over symphysis of mandible; interorbital not defined, as very narrow frenum, eyes nearly touching. Gill rakers as row of feeble minute papillae; gill filaments 1 1/2 times lower orbit.

Scales 100 to 110 in median lateral line from above gill opening to caudal base (10 or 12 more forward on head to intersection above preopercle); 19 to 22 above to upper lateral line, 19 to 22 below to lower lateral line. Lateral lines 3 on left side, 3 less distinct on right side or absent in young. Scales with 14 to 22 basal radiating striae, edge scalloped; 14 to 20 slender rather long apical denticles, medially longest, 3 to 5 transverse series of basal elements; circuli fine. Scales ctenoid on both sides of body.

D. 100 to 117, fin height 2 1/3 to 2 2/3 in head; A. 85 to 98, fin height 2 1/8 to 2 3/5; caudal 2 1/4 to 2 1/3, ends in point behind; ventral 3 7/8 to 4.

Left side ochraceous to cinnamon or tawny olive, exposed scale edges often slightly darker. Orbits gray. Fins paler than body color, especially so over basal scaly arear where light in contrast; medially each ray dark brown; margins of fins more or less pale. Right side whitish, fins with slightly darkened median area all around.

Trulla heterolepis (Weber)

Cynoglossus heterolepis Weber, Notes Leyden Mus., vol. 32, p. 237, 1910 (type locality : Lorentz River, New Guinea); Nova Guinea, vol. 10, pt. 4, p. 590, 1913 (type). —Fowler, Mem. Bishop Mus., vol. 10, p. 95, 1928 (compiled). —Weber and Beaufort, Fishes Indo Austral. Archip., vol. 5, p. 191, fig. 52, fig. 53 (scales), 1929 (type).

Trulla interruptus (Günther)

Cynoglossus interruptus Günther, Rep. Voy. Challenger, vol. 1, pt. 6, p. 70, pl. 30, fig. B, 1880 (type locality : market at Yokohama). —Steindachner, Ann. Hofmus. Wien, vol. 11, p. 220, 1896 (Kobe, Hiogo, Hagasaki). —Otaki, Journ. Bur. Fisher. Tokyo, p. 8, 1897. —Jordan and Snyder, Proc. U. S. Nat. Mus., vol. 23, p. 380, 1900 (Tokyo); Annot. Zool. Japon., vol. 3, p. 123, 1901 (reference).

Areliscus interruptus Jordan and Starks, Proc. U. S. Nat. Mus., vol. 31, p. 240, 1906 (Tokyo, Nagisaki, Wakanoura, Matsushima, Onomichi, Hiroshima). —Jordan and Snyder, Proc. U. S. Nat. Mus., vol. 42, p. 441, 1912 (Shimizu; Suruga). —Jordan, Tänaka, Snyder, Journ. College Sci. Tokyo, vol. 33, p. 336, 1913 (reference). —Izuka and Matsuura, Cat. Zool. Spec. Mus. Tokyo, Vertebr., p. 114, 1920 (Tateyama, Boshiu). —Reeves, Journ. Pan Pac. Res. Inst., vol. 2, No. 3, p. 14, July-Sep. 1927 (name). —Schmidt and Lindberg, Bull. Acad. Sci. U. R. S. S., p. 1149, 1930 (Tsuruga). —Chu, Biol. Bull. St. John's Univ. Shanghai, No. 1, p. 95, Jan. 1931 (reference). —Schmidt, Trans. Pac. Comm. Acad. Sci. U. S. S. R., vol. 2, p. 130, 1931 (Nagasaki); Comptes Rend. Acad. Sci. U. R. S. S., p. 319, 1931 (reference).

Trulla itina Snyder

Trulla itina Snyder, Proc. U. S. Nat. Mus., vol. 36, p. 609, 1909 (type locality : Naha, Okinawa, Rui Kui); vol. 42, p. 517, pl. 69, fig. 1, 1912 (type), p. 441 (Kagoshima). —Jordan, Tanaka, Snyder, Journ. College Sci. Tokyo, vol. 33, p. 337, 1913 (reference).

Trulla joyneri (Günther)

Cynoglossus joyneri Günther, Ann. Mag. Nat. Hist., ser. 5, vol. 1, p. 486, 1878 (type locality : Tokei, Japan); Rep. Voy. Challenger, vol. 1, pt. 6, p. 70, pl. 30, fig. A, 1880 (type). —Otaki, Journ. Bur. Fisher. Tokyo, p. 9, pl. 8, fig. 12, 1896.

Areliscus joyneri Jordan and Snyder, Proc. U. S. Nat. Mus., vol. 23, p. 380, 1900 (Tokyo); Annot. Zool. Japon., vol. 3, p. 123, 1901 (reference). —Jordan and Starks, Proc. U. S. Nat. Mus., vol. 31, p. 241, 1906 (Tokyo). —Snyder, Proc. U. S. Nat. Mus., vol. 42, p. 441, 1912 (Kagoshima). —Jordan, Tanaka, Snyder, Journ. College Sci. Tokyo, vol. 33, p. 336, 1913 (reference). —Izuka and Matsuura, Cat. Zool. Spec. Mus. Tokyo, Vertebr., p. 114, 1920 (Wadanoha, Rikuzen). —Tanaka, Journ. Fac. Sci. Univ. Tokyo, sect. 4, Zool., vol. 3, pt. 1, p. 39, Nov. 4, 1931 (reference).

Cynoglossus brunneus Regan, Ann. Mag. Nat. Hist., ser. , vol. , p. 26, 1925 (type locality : Inland Sea of Japan). —Jordan and Starks, Proc. U. S. Nat. Mus., vol. 31, p. 239, 1906 (compiled). —Jordan, Tanaka, Snyder, Journ. College Sci. Tokyo, vol. 33, p. 336, 1913 (copied). —Schmidt,

Trans. Pac. Comm. Acad. Sci. U. S. S. R., vol. 2, p. 129, 1931 (Nagasaki).

Trulla kopsii (Bleeker)

Plagusia kopsii Bleeker, Naturk. Tijds. Nederl. Indië, vol. 2, p. 494, 1854 (type locality : Rîou, Bintang); Verh. Batavia. Genoot., No. 9, vol. 24, p. 31, 1852 (Rio; Amboina).

Plagusia kopsi Kaup, Archiv Naturges., vol. 24, pt. 1, p. 110, 1858 (reference).

Arelia kopsi Bleeker, Act. Soc. Sci. Ind. Néerl. (Enum. Pisc.), vol. 6, p. 184, 1859 (reference).

Cynoglossus kopsii Günther, Cat. Fishes Brit. Mus., vol. 4, p. 493, 1862 (no locality); Rep. Voy. Challenger, vol. 1, pt. 6, p. 40, 1880 (Arafura Sea). —Regan, Trans. Linn. Soc. London, Zool., vol. 12, pt. 3, p. 235, May 1908 (Mulaku, Maldives; Cargados Carajos). —Fowler, Mem. Bishop Mus., vol. 10, p. 95, 1928 (compiled).

Cynoglossus kopsi Bleeker, Atlas Ichth. Ind. Néerl., vol. 6, p. 31, pl. (10) 241, fig. 3, 1866-72 (Sumatra, Singapore, Bintang, Amboina); —Weber and Beaufort, Fishes Indo Austral. Archip., vol. 5, p. 189, 1929 (Java Sea).

Trulla microlepis (Bleeker)

Plagusia microlepis Bleeker, Naturk. Tijds. Ned. Indië, vol. 1, p. 413, 1850 (type locality : Bandjermassing, south east Borneo); Verh. Batavia. Genoot., No. 9, vol. 24, p. 31, 1852 (type). —Kaup, Archiv Naturges., vol. 24, pt. 1, p. 110, 1858 (name).

Arelia microlepis Bleeker, Act. Soc. Sci. Ind. Néerl. (Enum. Pisc.), vol. 6, p. 184, 1859 (reference).

Cynoglossus microlepis Günther, Cat. Fishes Brit. Mus., vol. 4, p. 495, 1862 (compiled). —Bleeker, Atlas Ichth. Ind. Néerl., vol. 6, p. 32, pl. (12) 243, fig. 3, 1866-72 (Borneo). —Vaillant, Nouv. Arch. Mus. Hist. Nat. Paris, ser. 4, vol. 5, p. 101, 1893 ( ). — Weber and Beaufort, Fishes Indo Austral. Archip., vol. 5, p. 190, 1929 (Sumatra).

Trulla quinquelineata (Day)

Cynoglossus quinquelineatus Day, Fishes of India, pt. 3, p. 432, pl. 98, fig. 1, 1877 (type locality : Madras); Fauna British India, Fishes, vol. 2, p. 453, 1889. —Norman, Records Indian Mus., vol. 30, pt. 2, p. 197, fig. 12, July 1928 (type ?).

Trulla rhomaleus (Jordan and Starks)

Arelia rhomaleus Jordan and Starks, Proc. U. S. Nat. Mus., vol. 31, p. 526, fig. 5, 1906 (type locality : Port Arthur, Manchuria). —Chu, Biol. Bull. St. John's Univ. Shanghai, No. 1, p. 95, Jan. 1931 (reference).

Areliscus rhomaleus Jordan and Metz, Mem. Carnegie Mus., vol. 6, No. 1, p. 63, fig. 63, June 1913, (reference). —Reeves, Journ. Pan Pac. Res. Inst., vol. 2, No. 3, p. 14, July-Sep. 1927 (Port Arthur; Swatow). — Sowerby, Natural. Manchuria, vol. 4, p. 183, 1930 (Pei tai Ho, Shan-hai Kuan, Port Arthur, Dalny, Antung, Tientsin). —Schmidt, Compt. Rend. Acad. Sci. U. R. S. S., p. 319, 1931 (Fusan, Korea).

Trulla sealarki (Regan)

Cynoglossus sealarki Regan. Trans. Linn. Soc. London, vol. 12, Zool., pt. 3, p. 235, pl. 26, fig. 1, May 1908 (type locality : Saya de Malha Bank, over 123 fathoms). —Norman, Records Indian Mus., vol. 30, pt. 2, p. 195, July 1928 (types).

Trulla semilaevis (Günther)

Cynoglossus semilaevis Günther, Ann. Mag. Nat. Hist., ser. 4, vol. 12, p. 379, 1873 (type locality : Chefoo, China); ser. 7, vol. , p , 1898 (Newchwang, North China).

Arelia semilaevis Jordan and Starks, Proc. U. S. Nat. Mus., vol. 31, p. 242, 1906 (compiled). —Mori, Hand List Manchur. Vertebr., p. 183, July 1927 (reference). —Chu, Biol. Bull. St. John's Univ. Shanghai, No. 1, p. 95, Jan. 1931 (reference).

Trulla trigramma Günther

Cynoglossus trigrammus Günther, Cat. Fishes Brit. Mus., vol. 4, p. 494, 1862 (type locality : China). —Bleeker, Nederl. Tijds. Dierk., vol. 4, p. 131, 1873 (1874) (Amoy). —Martens, Preuss. Exped. Ost Asien, vol. , p , 1875 (Shanghai). —Sauvage, Bull. Soc. Sci. Philomath. Paris, ser. 7, vol. 5, p. 107, 1881 (Swatow). —Rutter, Proc. Acad. Nat. Sci. Philadelphia, 1897, p. 89 (reference).

Areliscus trigrammus Chu, Biol. Bull. St. John's Univ. Shanghai, vol. 2, No. 3, p. 14, July-Sep. 1927 (reference).

Trulla trulla (Cantor)

Plagusia trulla Cantor, Journ. Asiatic Soc. Bengal, vol. 18, pt. 2, p. 1213, 1849 (1850) (type locality : Sea of Pinang; Malayan Peninsula).

Cynoglossus trulla Günther, Cat. Fishes Brit. Mus., vol. 4, p. 503, 1862 (type).

Trulla cantori Kaup, Archiv Naturges., vol. 24, pt. 1, p. 109, 1858 (type locality : Sea of Pinang; reference virtually on Cantor).

Trulla versicolor (Alcock)

Cynoglossus versicolor Alcock, Ann. Mag. Nat. Hist., ser. 6, vol. 6, p. 442, 1890 (type locality : off Orissa coast, 11 fathoms); Journ. Asiatic Soc. Bengal, vol. 65, pt. 2, p. 330, 1896. —Norman, Rec. Indian Mus., vol. 30, pt. 2, p. 195, fig. 10, July 1928 (type).

Trulla waandersii (Bleeker)

Plagusia waandersii Bleeker, Naturk. Tijds. Ned. Indië, vol. 7, p. 98, 1854 (type locality : Palembang, east Sumatra).

Plagusia wandersi Kaup, Archiv Naturges., vol. 24, pt. 1, p. 110, 1858 (name).

Arelia waandersi Bleeker, Act. Soc. Sci. Ind. Néerl. (Enum. Pisc.)., vol. 6, p. 185, 1859 (reference).

Cynoglossus waandersii Günther, Cat. Fishes Brit. Mus., vol. 4, p. 493, 1862 (compiled). —Bleeker, Atlas Ichth. Ind. Néerl., vol. 6, p. 31, pl. (10) 241, fig. 2, 1866-72 (Sumatra).

Cynoglossus waandersi Weber and Beaufort, Fishes Indo Austral. Archip., vol. 5, p. 189, 1929 (Sumatra; Borneo).

Trulla xiphoidea (Günther)

Cynoglossus xiphoideus Günther, Cat. Fishes Brit. Mus., vol. 4, p. 495, 1862 (type locality : Siam). —Kner, Reise Novara, Fische, p. 294, 1865 (East Indies). —Edwards, Bull. Nouv. Arch. Mus. Hist. Nat. Paris, vol. 2, p. 13, 1866

—Weber, Siboga Exped., vol. 57, p. 441, 1913 (Timor Sea, 216 meters).

—Hora, Journ. Nat. Hist. Soc. Siam, vol. 6, No. 2, p. 182, 1923 (Nontaburi). —Weber and Beaufort, Fishes Indo Austral. Archip., vol. 5, p. 193, 1929 (Weber's material).

Genus Symphurus Rafinesque

Symphurus Rafinesque, Ind. Itt. Sicil., pp. 13, 52, May 1810. (Type, Symphurus nigrescens Rafinesque, monotypic.)

Plagiusa Browne, Nat. Hist. Jamaica, ed. 2, p. 46, 1789. (Species non-binomial; type, Pleuronectes plagusia Schneider, designated by Jordan and Evermann, Genera of Fishes, pt. 1, p. 46, 1917.)

Plagusia (not Latreille 1806) Cuvier, Règne Animal, ed. 2, vol. 2, p. 344, 1829. (Type, Pleuronectes plagusia Schneider.)

Bibronia Cocco, (Intorno P. Messina) Lettera Prof. A. Cocco al Signor A. Krohn, p. 15, 1844. (Type, Bibronia ligulata Cocco.)

Aphorista Kaup, Archiv Naturges., vol. 24, pt. 1, p. 106, 1858. (Type, Achirus ornatus Lacépède, monotypic.)

Glossichthys Gill, Cat. Fish. East Coast U. S., p. 51, 1861. (Type, Pleuronectes plagusia Schneider, monotypic.)

Ammopleurops Günther, Cat. Fishes Brit. Mus., vol. 4, p. 490, 1862. (Type, Plagusia lactea Bonaparte, monotypic.)

?Bascanius Schiödte, Naturh. Tidsskr., ser. 3, vol. 5, pp. 269, 275, 1867.

(Type, Bascanius taedifer Schiödte, monotypic.)

Acedia Jordan, in Jordan and Goss, Rep. U. S. Fish Comm., pt. 14, p. 321, 1886 (1889). (Type, Aphorstia nebulosa Goode and Bean, monotypic.)

Symphurus acuminatus (Castelnau)

Plagusia acuminata Castelnau, (Res. Fish. Austral.) Vict. Off. Rep. Philadelphia Expos., p. 44, 1876 (type locality : Western Australia).

Symphurus australis McCulloch,

Symphurus strictus var. australis McCulloch, Rec. Austral. Mus., vol. 6, p. 349, fig. 55, 1907 (type locality : 35 miles east of Sydney, 800 fathoms).

Symphurus australis McCulloch, Austral. Zoologist, vol. 2, 1921, p. 47.

—Norman, Biol. Res. Endeavour, vol. 5, pt. 5, p. 308, June 15, 1926 (type). —McCulloch, Austral. Mus. Mem., No. 5, pt. 2, p. 287, Sep. 10, 1929 (reference).

Symphurus gilesii (Alcock)

Aphoristia gilesii Alcock, Journ. Asiatic Soc. Bengal, vol. 58, No. 3, p. 293, pl. 17, fig. 2, 1889 (type locality : lat. 20°17'N., long. 88°51'E., Bengal Bay, 193 fathoms); Illustrat. Zool. Investigator, pt. 3, pl. 14, fig. 4, 1898; Descript. Cat. Deep Sea Fishes Ind. Mus., p. 131, 1899 (Bengal Bay, 193 to 210 fathoms). —Goode and Bean, Oceanic Ichth., p. 458, 1895 (name).

Aphoristia gilesi Weber, Siboga Exped., vol. 57, p. 445, 1913 (Kei Islands, 397 meters). —Weber and Beaufort, Fishes Indo Austral. Archip., vol. 5, p. 210, 1929 (Weber's example).

Symphurus hondoensis Hubbs

Symphurus hondoensis Hubbs, Proc. U. S. Nat. Mus., vol. 48, p. 494, pl. 27, fig. 9, 1915 (type locality : Suruga Gulf, Japan, 211 to 293 fathoms).

Symphurus microrhynchus (Weber)

Aphoristia microrhynchus Weber, Siboga Exped., vol. 57, p. 444, fig. 85, 1913 (type locality : lat. 6°16'5S., long. 114°37'E., Java Sea, 82 meters).

Symphurus microrhynchus Weber and Beaufort, Fishes Indo Austral Archip., vol. 5, p. 211, 1929 (type).

Symphurus orientalis (Bleeker)

Aphoristia orientalis Bleeker, Verh. Akad. Wet. Amsterdam (Enum. Poiss. Jap.), vol. 18, p. 31, pl. 11, fig. 1, 1879 (type locality : Japan).

Symphurus orientalis Jordan and Snyder, Annot. Zool. Japon., vol. 3, p. 122, 1901 (reference). —Jordan and Starks, Proc. U. S. Nat. Mus., vol. 31, p. 243, 1906 (compiled). —Jordan, Tanaka, Snyder, Journ. College Sci. Tokyo, vol. 33, p. 335, 1913 (reference). —Chu, Biol. Bull. St. John's Univ. Shanghai, No. 1, p. 94, Jan. 1931 (reference).

?Achirus plagusia (not Schneider) Basilewsky, Bull. Soc. Nat. Moscow, vol. , p. 245, 1855 (Tchili).

Symphurus regani Weber and Beaufort

Symphurus regani Weber and Beaufort, Fishes Indo Austral Archip., vol. 5, p. 210, fig. 56, 1929 (type locality : Flores Sea, 694 to 794 meters).

Aphoristia elongata (not Günther) Weber, Siboga Exped., vol. 57, p. 444, 1913 (lat. 7°24'S., long. 118°15'2"E., 794 meters; lat.117°30!8S., long. 117°30'8E., 694 meters).

Depth 3 4/5 to 4; head 4 to 5, width 4 3/4 to 5. Snout end to lower orbit 4 3/4 to 5 1/5 in head; lower orbit 6 1/4 to 6 4/5, 1 1/3 to 1 2/5 in snout; upper orbit 1/4 to 1/3 in advance of lower; maxillary reaches 1/2 in lower eye, length from lower front snout tip 4 1/4 to 4 1/2 in head; scaly interorbital very narrow, depressed between orbits. No gill rakers., gill filaments 1 to 1 1/5 in lower orbit.

Scales 80 to 85 in axial lateral series from above hind edge of gill opening to caudal base and 4 or 5 more on latter; 28 to 30 transversely. Scales all ctenoid, very caducous. Scales with 6 to 9 basal radiating striae; 12 to 14 slender apical denticles, with 2 to 4 transverse series of basal elements; circuli fine.

D. 95 to 102, fin height 2 to 2 1/5 in head; A. 80 to 89, fin height 2; caudal 1 4/5 to 2 1/2, obtusely pointed behind; ventral 2 1/4 to 2 3/5.

Left side clay color to ochraceous or buff. Dark pigment of lower or branchial region of head and front lower part of trunk dark neutral gray. Orbits gray. Vertical fins all gray to brown, often in contrast to rest of body. Right side paler to whitish, vertical fins all with more or less brownish. Also lower branchial region and lower front of trunk dark neutral gray.

Symphurus septem-striatus (Alcock)

Aphoristia septem-striata Alcock, Ann. Mag. Nat. Hist., ser. 6, vol. 8, p. 125, Aug. 1891 (type locality : lat. 11°31'40"N., long. 92°46'40"E., 188 to 220 fathoms, Andaman Sea); Illustrat. Zool. Investigator, pt. 1, pl. 2, fig. 1, 1892. —Goode and Bean, Oceanic Ichth., pp. 458, 536, 1895 (name). —Alcock, Cat. Deep Sea Fishes Ind. Mus., p. 132, 1899 (types; Gulf of Manár, 142 to 400 fathoms).

Symphurus strictus Gilbert

Symphurus strictus Gilbert, Bull. Bur. Fisher., vol. 23, pt. 2, p. 691, fig. 272, 1903 (1905) (type locality : off Oahu; off east Kauai; 265 to 399 fathoms).

Symphurus trifasciatus (Alcock)

Aphorstia trifasciatus Alcock, Journ. Asiatic Soc. Bengal, vol. 63, pt. 2, No. 3, p. 132, pl. 7, fig. 4, 1894 (type locality : Illustrat. Zool. Investigator, pt. 3, pl. 15, fig. 5, 1895; Cat. Deep Sea Fishes Indian Mus., p. 133, 1899 (Bengal Bay, 145 to 250 fathoms).

Symphurus undatus Gilbert

Symphurus undatus Gilbert, Bull. Bur. Fisher., vol. 23, pt. 2, p. 690, pl. 98, 1903 (1905) (type locality : off north west Oahu, 154 to 216 fathoms).

Symphurus unicolor (Macleay)

Plagusia unicolor Macleay, Proc. Linn. Soc. New South Wales, vol. 6,

p. 138, 1881 (type locality : Port Jackson).

Symphurus wood-masoni (Alcock)

Aphoristia wood-masoni Alcock, Journ. Asiatic Soc. Bengal, vol. 58, pt. 2, No. 3, p. 294, pl. 17, fig. 1, 1889 (type locality : 7 1/2 miles east of North Cinque Island, Andamans, 490 fathoms); Illustrat. Zool. Investigator, pt. 3, pl. 16, fig. 4, 1895; Cat. Deep Sea Fishes Indian Mus., p. 131, 1899 (type; Bengal Bay, 475 fathoms). —Regan, Trans. Linn. Soc. London, vol. 12, pt. 3, Zool., p. 235, May 1908 (Saya de Malha Bank, over 123 fathoms).